Six Months Aint No Sentence
2016
Jim Leftwich

Book 171

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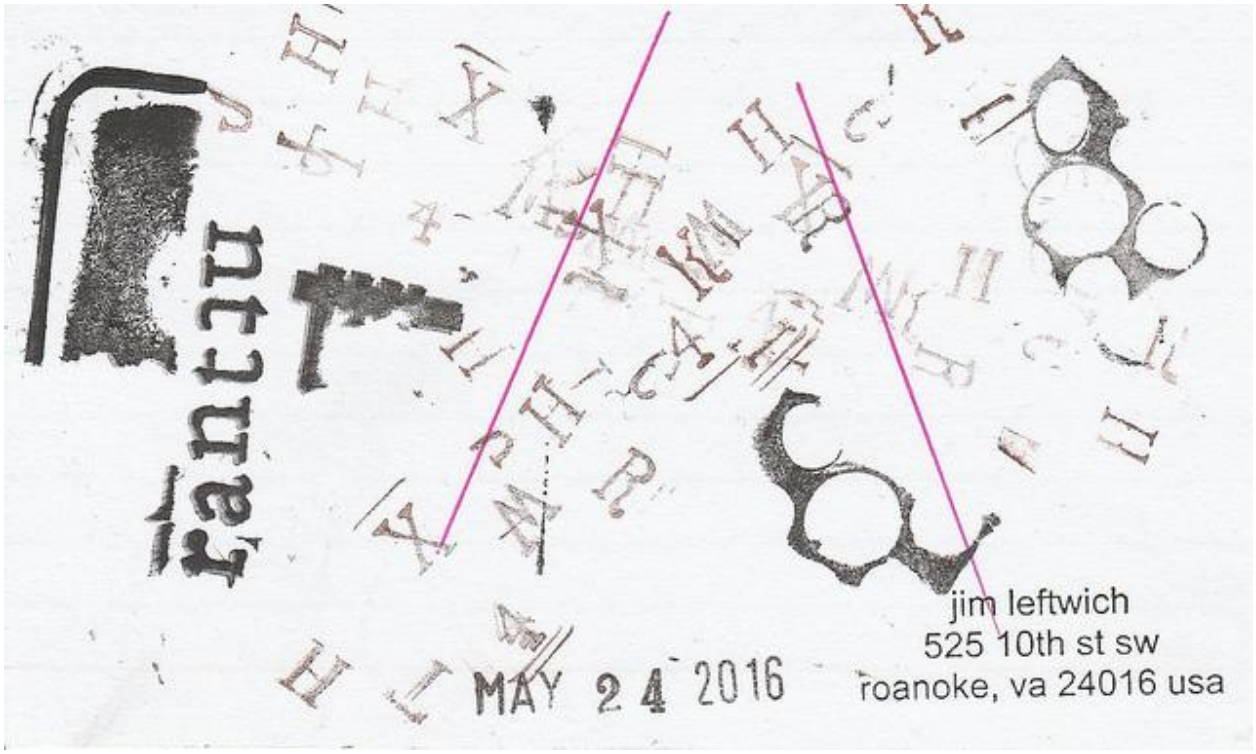
06.08.2016



RACK-AND-PANEL CONNECTORS

In many areas of electronics it is necessary to disconnect a chassis quickly from its mounting rack for rapid test or replacement. When this is the case, a quick-disconnect type of connector is employed. A typical rack-and-panel connector is shown in Fig. 15 · 11.

CARE IN WIRING CONNECTORS

Most cable connectors are quite compact. For this reason extra care should be exercised when wrapping the wire leads on the connector terminals. Solder should also be kept to a minimum. As additional protection, a short length of sleeving is slipped over the soldered connector terminal (see Fig. 15 · 12).

15 · 3 FLAT PRINTED-CIRCUIT CABLE

Cable is also made in the printed-circuit variety as illustrated in Fig. 15 · 13. The fact

Wiring diagrams refer to a harness as a cable. Typical of the symbols used in wiring diagrams is the five-conductor cable shown in Fig. 15 · 14*a*. Also shown are the symbols

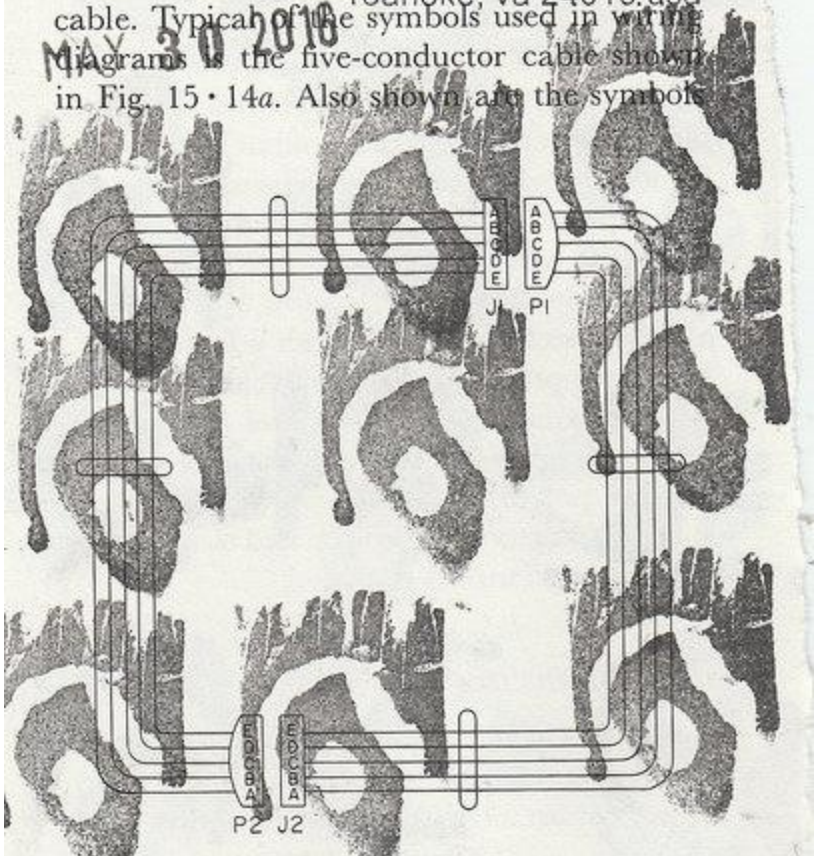


Fig. 15 · 15 Cable-wiring diagram.

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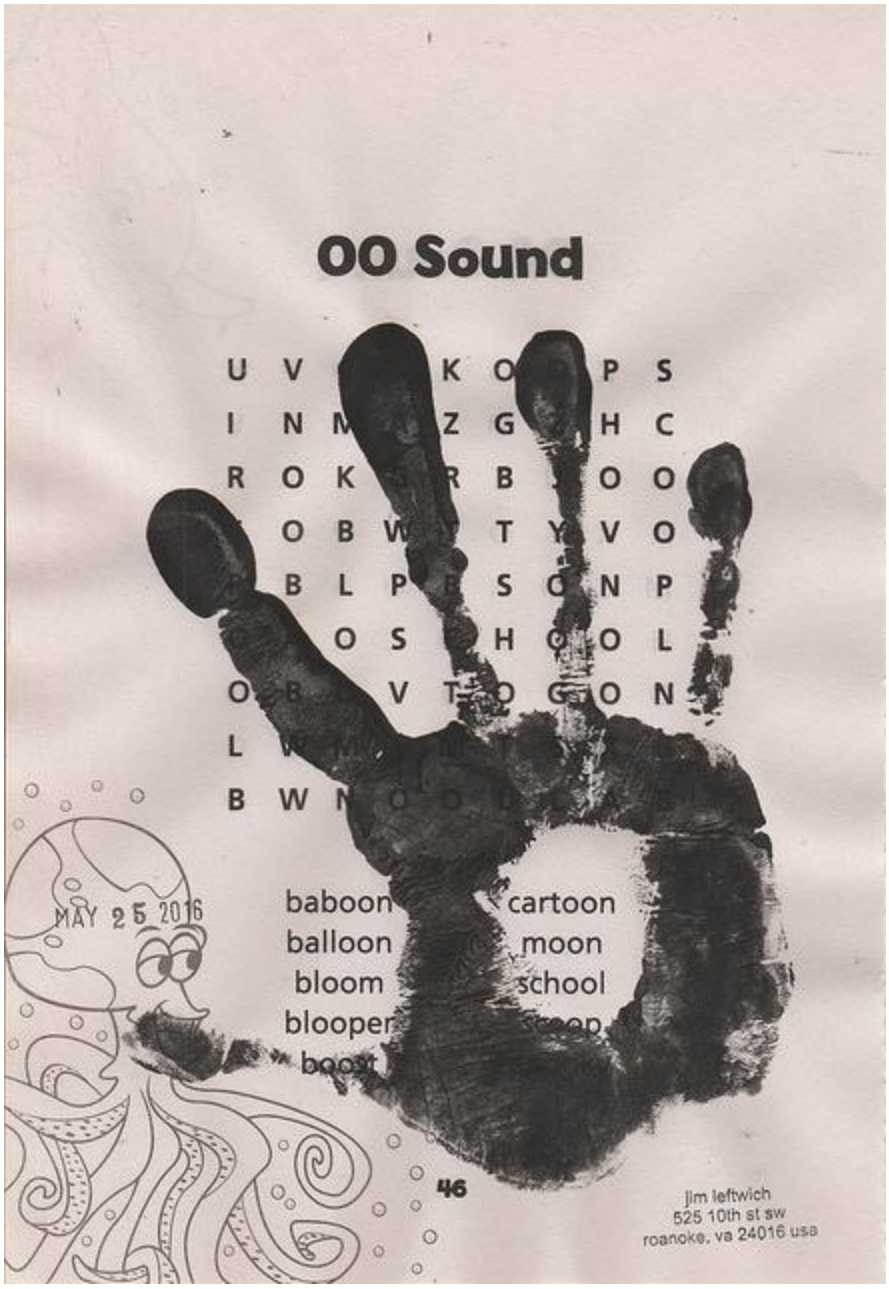

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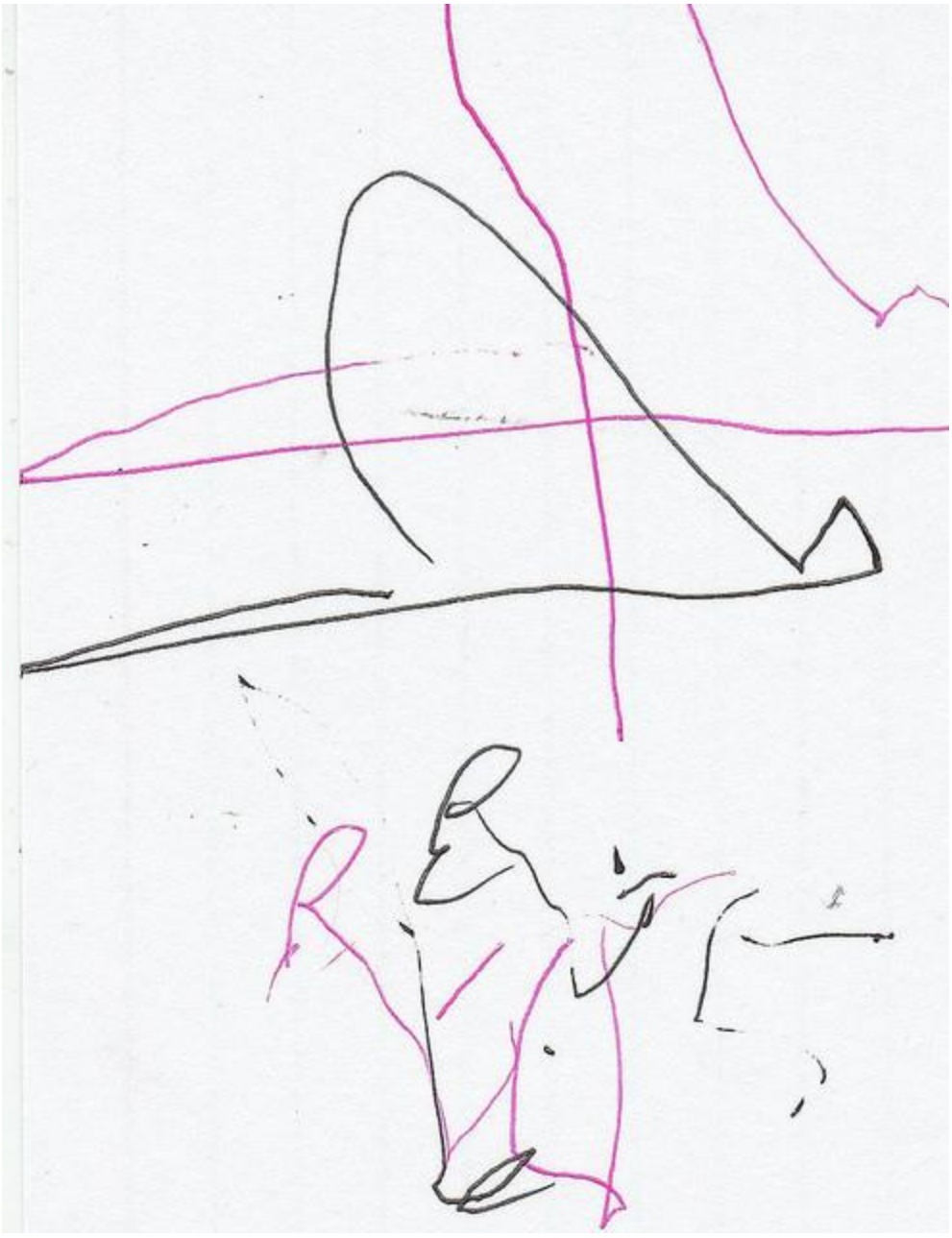


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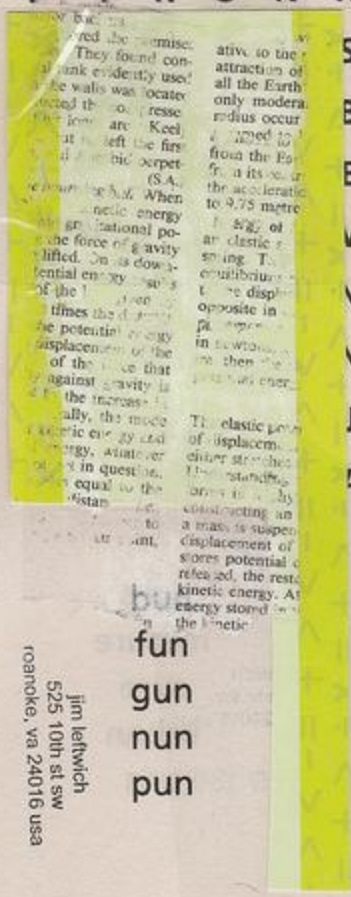

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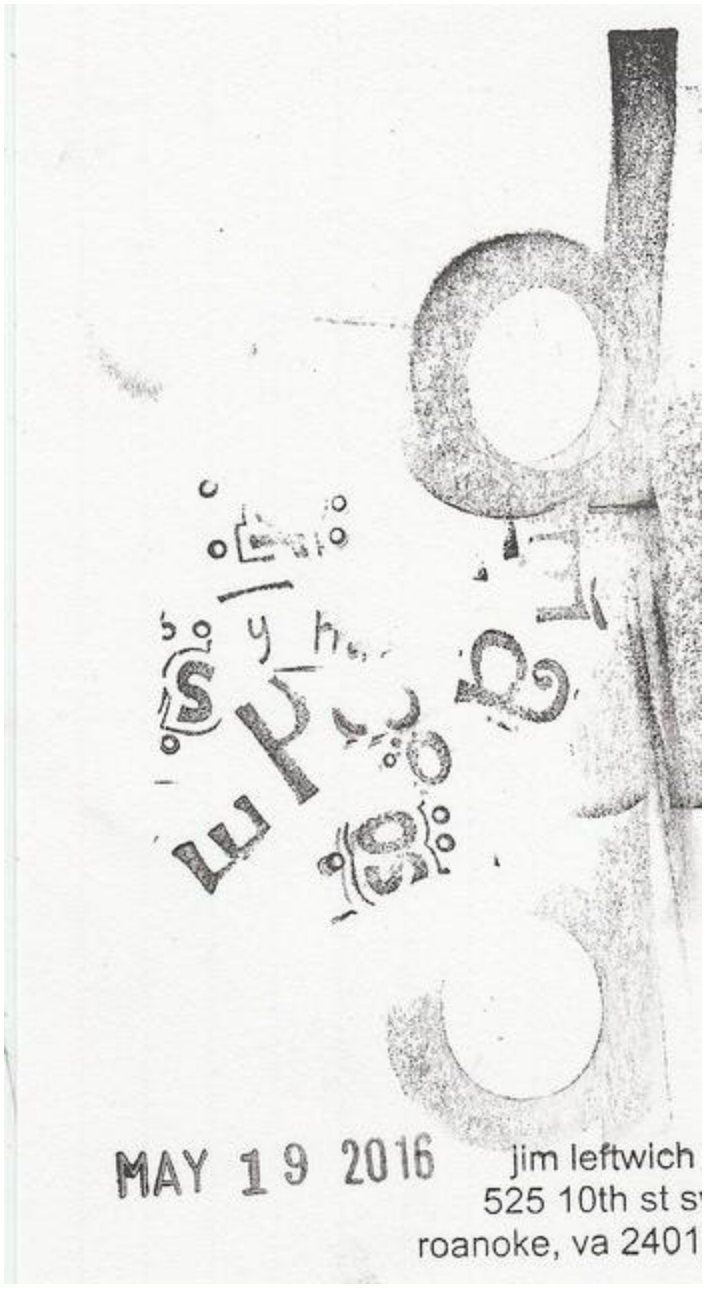

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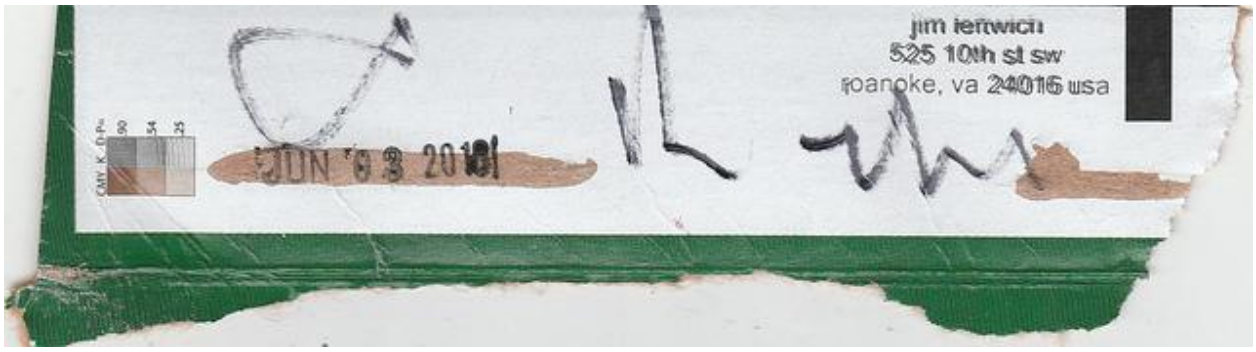
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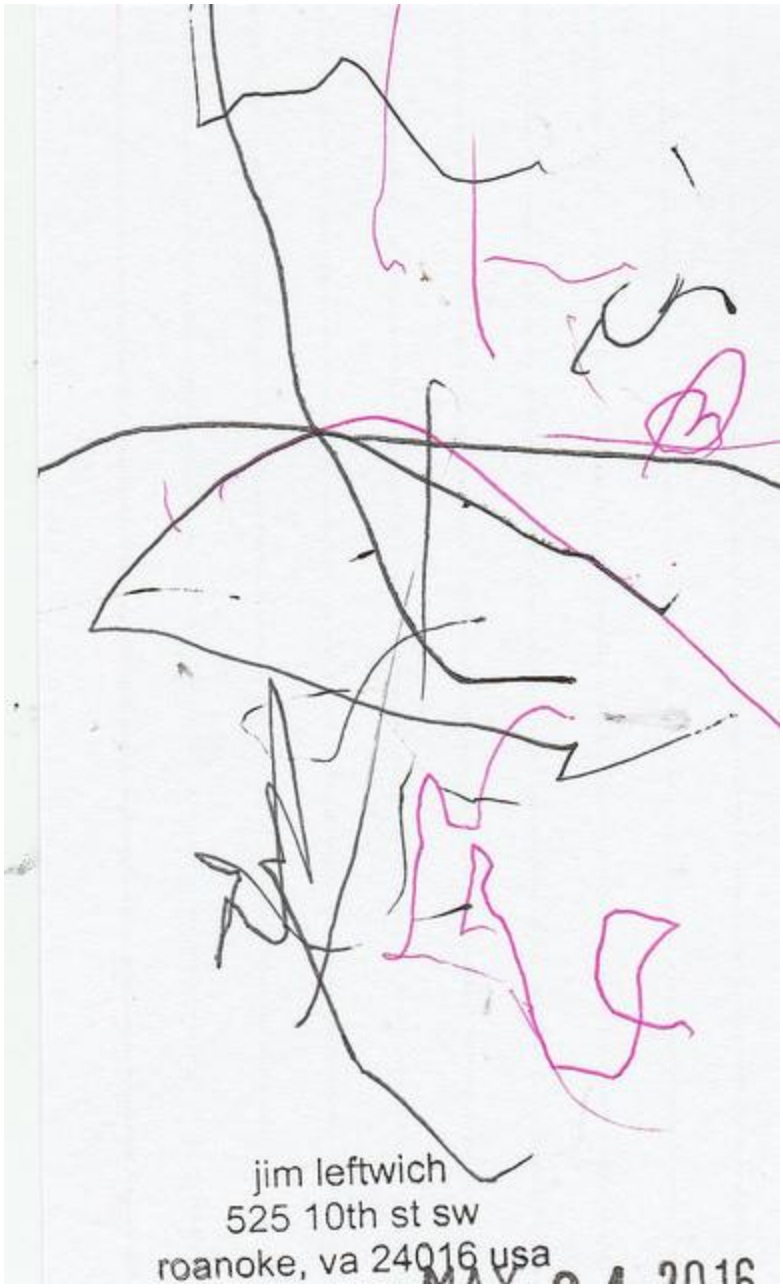

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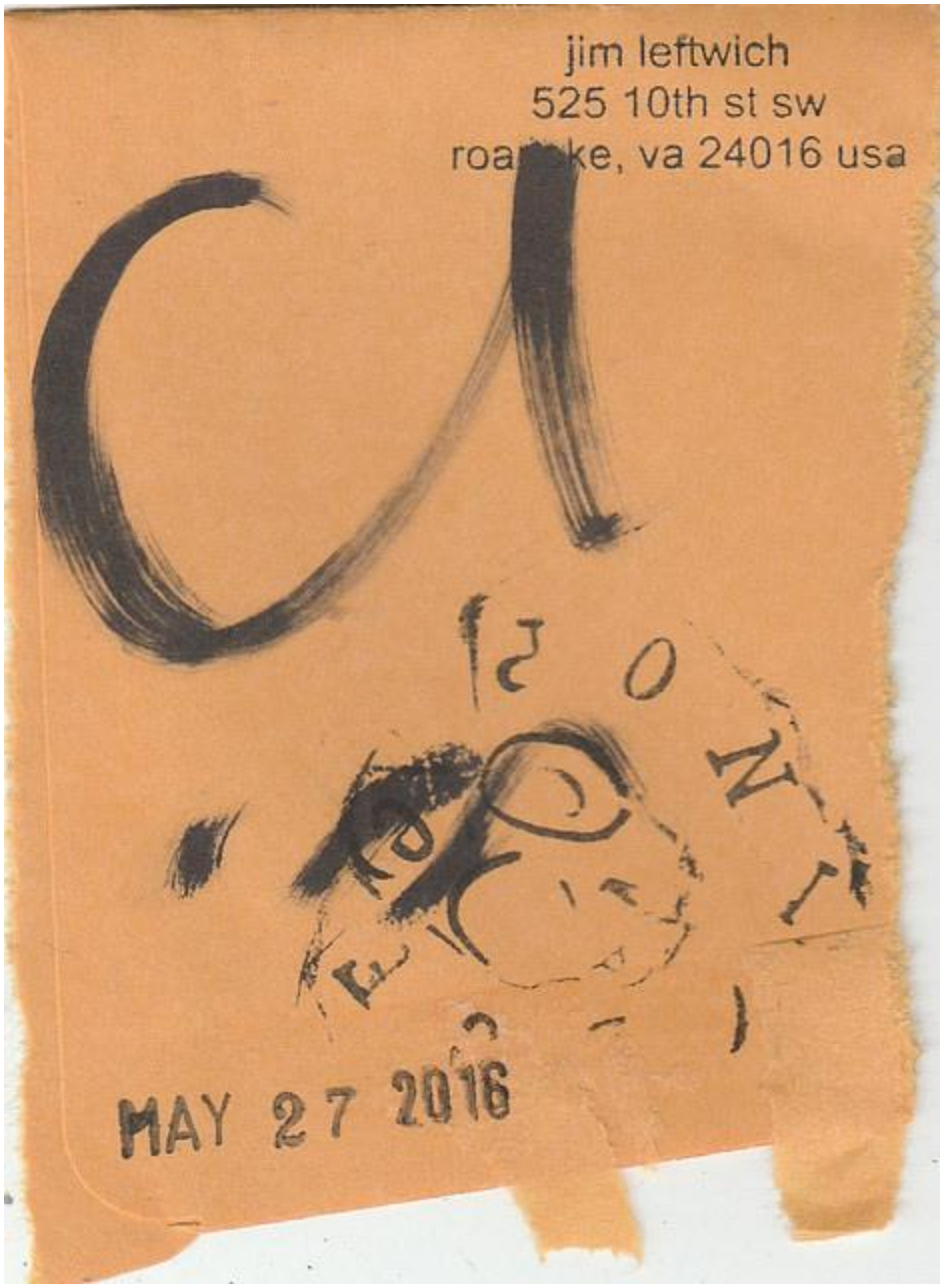
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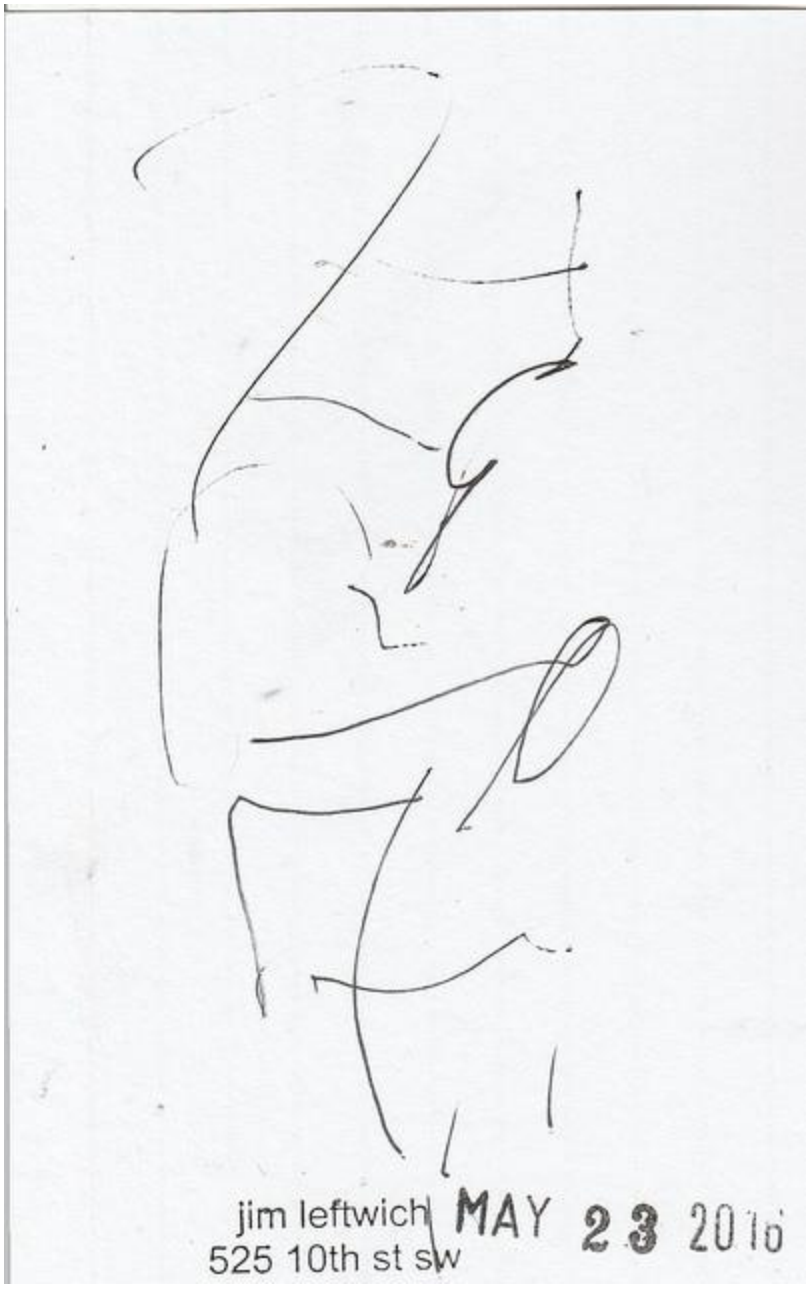

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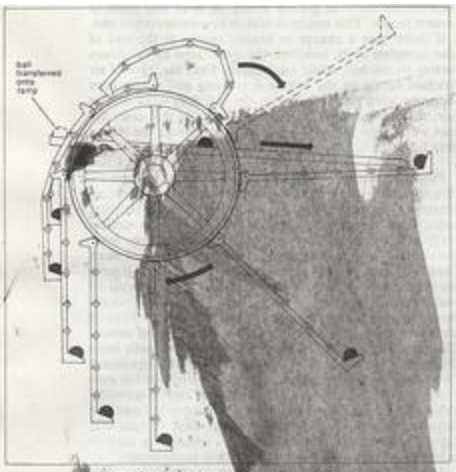

Figure 1: Typical overbalanced wheel (see text).

perpetual motion machines based on overbalanced wheels were Edward Somerset, 2nd marquis of Worcester (1601–67), and Johann Ernst Elgersdorfer (1680–1743), who was generally known as Orffyreus. Each of these men built rather large wheels that were capable of giving impressive demonstrations of apparent perpetual motion due probably to the large inertia which kept them turning for long periods of time once set into motion. Within a few years of 1640, probably around 1638 or 1639, Somerset operated his device for Charles I and his court. A Dutch physicist, W.J. Gravesande (1688–1742), inspected Orffyreus' last wheel and in many ways was impressed with its construction. In a long and detailed letter to Sir Isaac Newton, he described the externals of the wheel. On grounds that he did not want to be robbed of the secret of perpetual motion that he had discovered, Orffyreus refused to allow Gravesande to inspect its interior.

Before the end of the 14th century almost every English manor that was situated on a stream, roughly, that is, a third of all the manors in the Domesday Book, had its own water mill to grind flour, saw wood, and full woollens. Villagers and townspeople who had no access to running water naturally sought alternative sources of power. The solution to this problem most commonly suggested was the closed-cycle water mill such as that proposed by the English physician Robert Fludd in 1618 (Figure 2). If the water that turns a mill wheel could be collected from the race at the foot of the wheel and somehow put back into the reservoir above the wheel, the need for an source of running water would disappear. It was reasoned that the wheel could drive a pump that would recycle the mill's water supply. At the time Fludd proposed this device and for more than 200 years after, there was no scientific reason to believe that it would not work, though, of course, all practical efforts failed to achieve perpetual motion by this route. All of the countless closed-cycle mills that have been proposed down through the centuries were supposed to work because their inventors believed that the falling water would give up more energy than was required to return the water to the race above the wheel. Such devices are another variation of the overbalanced wheel and thus constitute perpetual motion machines of the first kind.

John Wilkins, bishop of Chester and an early official of the Royal Society, envisioned in the 1670s three natural power sources that might be harnessed to provide perpetual motion. These, in his words, were "Chemical Extractions," "Magnetical Vertues," and "the Natural Affection of Gravity." Wilkins' third power source embraces the entire [illegible] of mechanical effects. He specifically mentioned only one formula for chemical extraction; its underlying concept may have arisen from a misunderstood observation of the ceaseless motion of small particles visible in a fluid that is known today as Brownian movement. Wilkins also designed, but almost certainly never tried to build, a machine to utilize magnetic attraction. A lodestone on top of a pedestal was supposed to pull a bullet up an inclined ramp where it would fall through a hole and roll back to its starting position. Of course, any magnet strong enough to pull the ball up the ramp would not let it drop through the hole.

Wilkins' magnetic device was probably the first in a long series of devices designed to use electric or magnetic forces to produce perpetual motion. Machines that have been proposed more recently usually have some mechanical arrangement designed to interpose a shield to isolate one portion of the machine temporarily from an existing magnetic or electric field. In reliable inventions of such devices fail to account for the work required to push the isolator through the field and into place in order that isolation may be achieved.

Use of hydrodynamic and capillary principles

Would-be perpetual-motion-machine inventors have also directed their attention toward machines that would supposedly make use of hydrodynamic and capillary principles. In 1688 the Abbé de la Roque, editor of the *Journal des sçavans*, suggested as a source of perpetual motion the use of a beaker-like vessel that gives its liquid contents a large surface area on top and narrows to a small cross section on the bottom. A small tube running from the bottom of the beaker along the outside was permitted to discharge on to the top surface of the liquid in the beaker. De la Roque hoped (in vain) that the water in the wide section at the top would force liquid to flow continuously out of the bottom of the beaker and be returned to the top by means of the narrow tube. Sir William Congreve, a member of Parliament in the early 19th century, also proposed to use water to achieve an external source of free power. His scheme was based on an inclined plane that had a continuous chain of sponges looped around it; the sponges were forced to pass through a water bath. On top of the sponges a chain of heavy weights was fastened. The plan was that whenever a section of the sponges was filling with water, thereby making that section heavier, another portion of the sponges was being squeezed dry by the heavy weights, thereby making them lighter. Congreve's hope was that, since any section of the sponge chain would be perpetually heavier than the section that was being squeezed dry, the chain could be kept in motion around some appropriately arranged pulleys. The plan obviously failed to allow for the work that would have to be exerted on the sponges to remove the water from them.

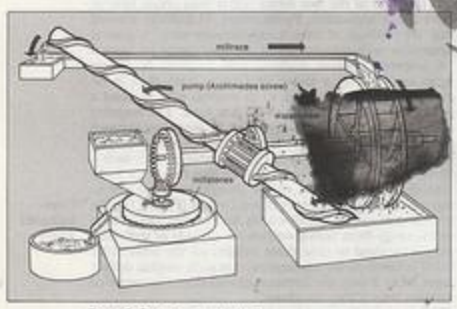

Figure 2: Closed-cycle water mill.

Machines that would completely convert heat to work. There is, however, one class of perpetual motion machines that is fundamentally different from the ones just described; they do not violate the first law in that energy in

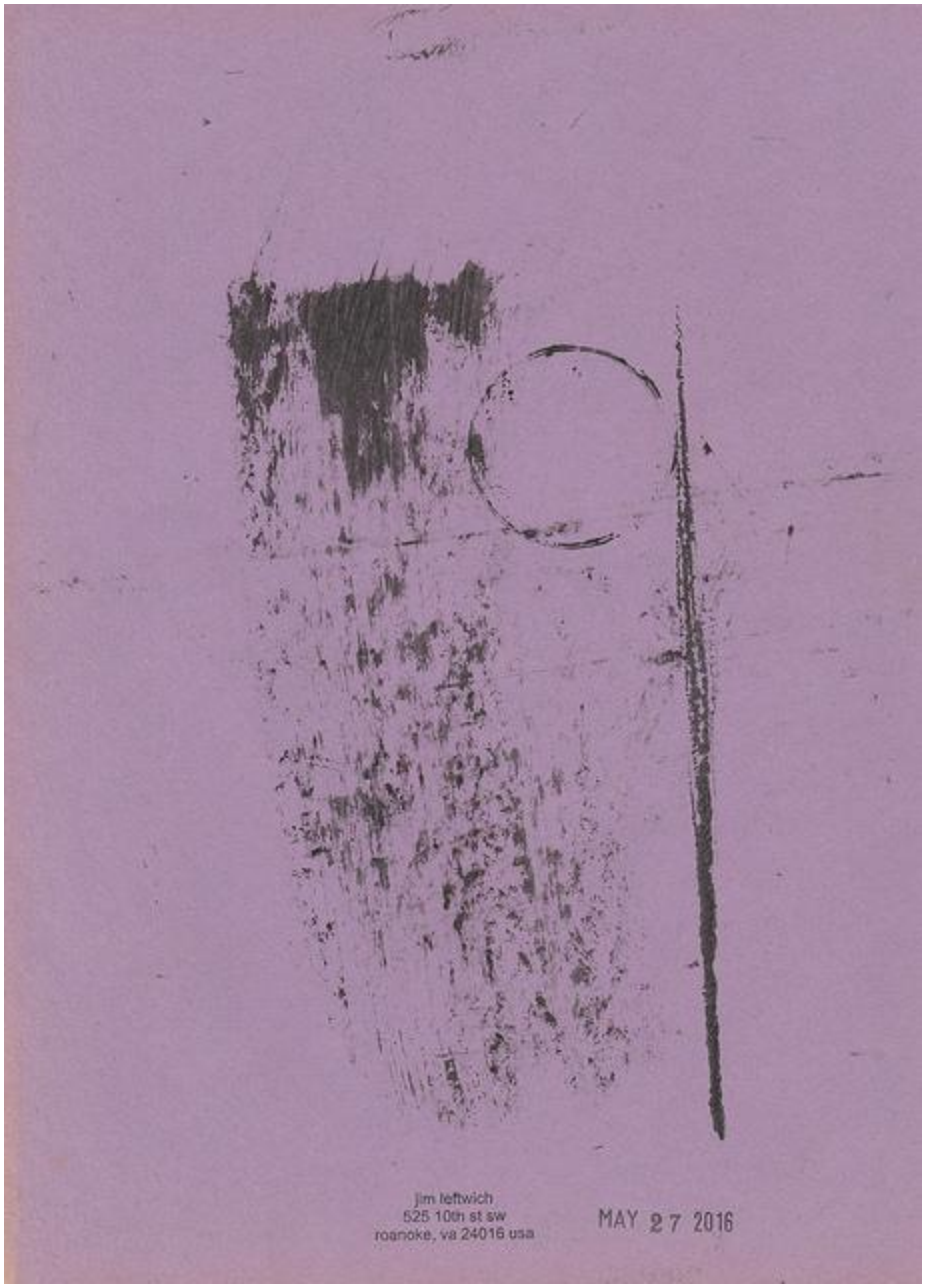

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Fig. 15 · 14 Symbols for use with cables and connectors. (*a*) Five-conductor cable. (*b*) Five-contact jack (connector receptacle). (*c*) Five-contact connector plug.

conductors are thin flat lengths of copper imbedded in a plastic film. Flat printed-circuit cable needs no spot tying or lacing.

The connectors shown in Fig. 15 · 13 are engineered solely for flat printed-circuit cables.

The Concept of Energy

The concept of energy is most useful in [illegible] standing of the physical world, [illegible] time, the principle or law developed for describing the role of energy is one of the [illegible] in the formulation of our understanding.

Energy is usually [illegible] simply defined as the equivalent of capacity for doing work. It itself is derived from the Greek *energeia*, or, literally, "work". Energy can either be associated with material bodies, as in a coiled spring, or a moving object, or it can be independent of matter, as in electromagnetic radiation traversing a vacuum. The energy in a system may be very partly available for use. [illegible] creates a unit of work which in classical mechanics is defined [illegible] as the product of [illegible] and the square of the [illegible] of length (*l*) to time (*t*). This means that a [illegible] mass or the distance through which it is [illegible] able less the time taken to move that [illegible] work done [illegible] this greater the energy consumed [illegible] in such work [illegible] thermal units, [illegible] expansive energy.

Other articles in the [illegible] cept of energy include [illegible]

This article is divided into the following [illegible]

GENERAL CONSIDERATIONS

The concept of energy conservation. A fundamental law that has been observed to hold for all natural phenomena is the conservation of energy; *i.e.*, that the total energy does not change, [illegible] many changes that occur in nature. The conservation of energy is not a description of any process going on in nature, but rather it is a statement that the quantity called energy remains constant, regardless of when it is evaluated or what processes [illegible] including transformations of energy [illegible] another—as on between successive evaluations.

The law of conservation of energy is applied not only to nature as a whole but to [illegible] nature as well. Thus, if the [illegible] is defined in such a way that no [illegible] removed from the system, then energy must be conserved within that system, regardless of the details of the processes going on inside the system boundaries. A corollary of this closed-system statement is that whenever the energy [illegible] system is observed in two successive conditions of the system, the difference is a measure of the quantity of [illegible] that have been either added to or removed from the system in the time interval elapsing between the two [illegible]

Application of law of conservation of energy

Energy can exist in many forms within a system and may be converted from one form to another within the constraint of the conservation law. These different forms include gravitational, kinetic, heat, elastic, electrical, chemical, radiant, nuclear, and mass, or type. It is the universal applicability of the concept of energy, as well as the completeness of the fact [illegible] within different forms, that makes it so attractive and useful.

Development of the concept of energy. The term energy was not applied as a measure [illegible] ability to do work until rather late in the development [illegible] science of mechanics. Indeed, the development [illegible] classical mechanics may be outlined without [illegible] to the concept of energy. The [illegible] of energy, however, goes back at least to Galileo in the 17th century [illegible] recognized that when a weight is lifted with a pulley system, the force applied [illegible] the [illegible] through which that force must [illegible] (in fact exactly equal, in frictionless systems, the work) required to raise the weight [illegible] even though either [illegible] may vary. The [illegible] or living force, a quantity [illegible] proportional to the product of the mass and the square of the velocity, was introduced in the 17th century. In the 19th century the term energy was applied to the concept [illegible] as we [illegible]

Newton's second law of motion recognizes force as being associated with the acceleration of a mass. It is almost inevitable that the integrated effect of the force acting on the mass would then be of interest. Of course, there are two kinds of integral of the effect of the force acting on the mass that can be defined. One is the integral of the force acting along the line of action of the force, or the spatial integral of the force; the other is the integral of the force over the time of its action on the mass, or the temporal integral.

Evaluation of the spatial integral leads to a quantity that is now taken as representing the change in kinetic energy of the mass resulting from the action of the force and is just one-half the *vis viva*. On the other hand, the temporal integration leads to the evaluation of the change in momentum of the mass resulting from the action of the force. For some time there was debate as to which integration led to the proper measure of force, the German philosopher-scientist Gottfried Wilhelm Leibniz arguing for the spatial integral as the true measure, while earlier the French philosopher and mathematician René Descartes had defended the temporal integral. Eventually, in the 18th century, the French mathematician Jean d'Alembert of France showed [illegible] approaches to measuring the effect [illegible] force acting on a mass was that the controversy was [illegible] of nomenclature.

To recapitulate, [illegible] force is associated with the acceleration of a mass, or energy resulting from the [illegible] force, or energy resulting from the spatial integration of a force acting [illegible] the result of the temporal integral of the force acting [illegible] mass, and energy is a measure [illegible] the capacity [illegible] It might be added that power is [illegible] which energy is transferred [illegible] to [illegible] or through transformation [illegible] from the original [illegible] to the consumer).

[illegible] independently recognized [illegible] of the 19th century. [illegible] personnel, and classical [illegible] the assumption of [illegible] provided two [illegible] industrial tool. Further [illegible] even closer [illegible] which, [illegible] as the limitation [illegible] machines, is found to express itself in the generation of [illegible] at the contact surfaces of a block sliding on a plane [illegible] the bulk of a fluid in which a paddle is turning or any of the other expressions of "friction." Heat was recognized as a form of energy by the English physicist James Prescott Joule, who also

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Olga Vladimirovna Rozanova (b. Melenki 1886 - d. Moscow 1918). Although she was mainly a painter, she also developed her activities in the field of design, fashion, book illustration and poetry, and was one of the leading representatives of the new typography. In her artistic life, she participated in the activities of cubo-futurist and suprematist artists. Her poetry is close to zaum language (her husband was Alexei Kruchenykh, creator of zaum), seeking through an "intuitive creation" of the phonetic of different languages, a universal intercommunication between them. In this poem called Spain she takes the sonority of some Spanish words -both real and fictional - and transforms them according to a rhythmic oral cadence, mixing them with other words from Russian: "Antiquary", "Phantom", "Grimaces", "The anthem", "Of death", generating a dramatic and poetic game of tones that portray a place; "the patterns of association are almost entirely paronomastic, and continuity is based on such paronomastic links" (Gerald Janecek).

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Nancy Perloff on Natalia Gonchorova
from Mirskontsa (Worldbackwards): Collaborative Book Art and Transrational Sounds
Goncharova’s cover designs for Mirskontsa work closely with a concept of book format and production that was most likely developed by Kruchenykh. In 1912, prior to the publication of Mirskontsa, Kruchenykh initiated a collaboration with Goncharova and Larionov on a series of postcards, in which drawings and texts were hand-lithographed on one side, and artist’s name, title of drawing, publisher’s name (Kruchenykh), and printer’s name were typeset on the reverse. Susan Compton argues convincingly that the postcards served as a lead-up to the hand-lithographed books. In his design for Mirskontsa, Kruchenykh pushes the limits of handmade processes. He cultivates a deliberately unrefined and unconventional appearance by choosing a square format, a stapled binding, and cheap, brittle paper with rough edges. The makeshift nature of the binding and the paper captures an aesthetic that Goncharova, as creator of the cover, expresses in each of the 220 collages that she designed for the book. On the Getty copy (see fig. 1), she uses a single sheet of green paper, pastes a cutout in the shape of a flower, and creates a second collage out of a white strip of paper for the title and the authors’ names. The lower stem of the flower is partially covered by the white strip, while the three petals on the upper right appear to have originally extended beyond the cover itself but

have since been torn or cut off. Goncharova thus experiments with partial views, equivocal readings, and gestures of incompletion. Her lettering of the title, МИРСКОНЦА, and the authors' names, А. КРУЧЕНЫХ В. ХЛЕБНИКОВ, mixes print (ОН of the title, ЕН of Kruchenykh, ОВ of Khlebnikov), with cursive (the "Р" in "МИР" and the "У" in "КРУ"), the latter partially concealing the archaic letterform "Е" of "ХЛЕБНИКОВ." The obscuring of visual forms and letters and the general disorderliness of the writing offset the strict alignment of the first initials of first and last names ("А" and "В") and ("К" and "Х") and of the hard signs at the end. Highlighted and, in the case of the "К" and "Х," made similar in form, these self-sufficient "letters as such" become abstract, independent sounds that anticipate the importance of the phonic dimension in this book. On other copies of Mirskontsa, Goncharova modifies her flower collage. She varies the shape—so that some cutouts bear a closer resemblance to flower forms than others—and she uses a range of colors and materials, from shiny black, glossy or matte green, and marbleized papers, to gold and silver foil with printed patterns. The variants reflect Goncharova's particular fusion of primitivism and the movement toward nonobjective art. Seen one way, the Getty cover (see fig. 1) evokes a human form with splayed legs and arms, or a flower stem tilted at a diagonal so that petals on the left appear closer, and therefore larger, than those on the right. Viewed another way, the collage is a purely abstract form in which edges are partly torn and concealed. Copies at the Museum of Modern Art, New York, similarly oscillate between abstract imagery and stylized cutouts evocative of a human figure, a flower cup with stems and blossom, and a child's toy paper boat (figs. 6, 7).

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cafetera bacte
rial bacteral c
feteria baceiab
acteria bacteil

baceacteria bacteilra cafeteria
bactal caffeteria baceiabeter
ia acerial bacteral cria baceri
a cfeteria baccafetera bactete
ri bacteia baceria baceri rialca
feteria bacecteral cafeterria b
actraceria cafeteriabia bacterial

baceacteria bact e rialacteria bacteilra cafeteria
bactal caff feteria ba ceria beteria baceiabeter
ia acerial bac terial carial bacteral cria baceri
a cfeteria baccafetera baca cafe teria bact etete
ribacteia baceria baceri riaiab aceria bac eril ca
fetb a cterial cafetereria bacecteral cafeterria b
actraceria cafeteriabia bacbaceria cafeteriaterial

baceacteria bact
e rialacteria ba
cteilra cafeteri

abactal caff fet
eria ba ceria be
teria baceiabete
ria acerial bact
erial carial bac
teral cria bacer
ia cfeteria bacc
afetera baca caf
e teria bact ete
teri bacteia bac
eria baceri riai
a b aceria bac e
ril cafetb a cte
rial cafeterer
ia bacecteral ca
feterria bactrac
eria cafeteriabi
a bacbaceria caf
eteriaterialiali

methane up into
hacjrabbit
into jackrabbit echo

vinegars nibble
ego tickling
turpentine
currencies riven tendencies
within civil carrion
mixed gatherings
baceria turbulent

freedom
natierative
in the
where were the rains

aruation crucible independence
in unique
witch paralysis
moon hardly ice

motorized baklava kabbalah
saxophone tumult
by the coast

worke-ladle language
irregularity
sweeps sepia sleep
awe playing the
 d Dd
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dd

d Ddd
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 D DD dD dD DdDD ddD D
dD
city Russian
unconscious omprovisational
umpossible amprovisational
emprobable improvisational
halfwordchopping anarchists

contain certain classical revivals

collage textures
unify scanners
in the axe

texts route letters
letters route texts

cut and gestural type

folded images write
returned lives

folded images write
detourned lives

folded images write
detuned lives

lived work
in which
dirt fingers
Fantomas frenetic
anarchist futurists
informed known
subordinate light
itself calculations
of mysteries
considered poems

methane cup in two
hacjrabbit
hijackrabbit
into jackrabbit echo

06.09.2016

has beans the
xtant adding
machine,
repercussions
of an early
taste

poets and legal
size plastic
army men
at the gas station

brine

cohabit
a number of
continuities

bvU ty vG hb Bb hu hyuHUhuhhu
HuHUhUIvb vo V oVb uB Vufirf
o Rvhj Vy uyu BVty J uvyt tyb
h BbbhjbjBuvvTYh uiHiHihuihG
F ty NjjBGGHyuYGUv Hvtrrti oiui
gv jkNkjui

xylographic

They sometimes appeared in series, which
might be regarded as predecessors of the
modern comic strip. Cheap and simple books,
similar to chapbooks, which mostly consisted
of pictures, are called lubok literature.

marks surround the calendars

the system of majorities is very
worried about combinations of
lessons and stories

masks of the upper pie rats

lyrical alphabets

hand-colored, unadorned

wo ru o detai
surprisinglx
while toe peas

the upper
magick
in the
lower
popularity

which were letteral plants

a bumbled clown dawn
eats fan gland
hurt is jam kangaroo
lit moth nor of pool
quite rats song turnip
urn violin whiskey
xylophone yet zinc

a noisic mark marked lunch
unfeeling
ceaselessly connected
to the bridge of threads

spiderwheel to explore the
vacant filament firmament

figment

speeding out of itself
into oceans
of thrown forms

anchors to anvil and axe

let the snake bait thunder

his seed
is the writhing of words

Nina Komarova (Khabias)
strict stick-jetty
little textimagepoems
bees predetermined
meaty beatnik kiosk
xaum 5-snag
magick magazines
semantics of Sakonskaya
in the 1910s
constructed constantly
consciousness
correspo word ero
abandonment authors
malleable maturity
analysis gestural Guro
summer impending angels
electricity withering
wanders

Alex Cigale: Elena Guro (b. 1877-1913) was an early Modernist Russian poet and artist who died at an early age, of leukemia. Her importance to Russian avant-garde poets cannot be overstated. Guro, along with her husband, musician, composer, artist Mikhail Matyushin (who had contributed the music to Kruchenykh's Futurist opera Victory Over the Sun,) was truly an early moving force in the Russian avant garde. As early as 1908, her home was a central meeting place for discussions of art and literature. Her critique of urbanization was to become a major theme for the Russian Futurists, or as they dubbed themselves "BUDETLYANI" (people of the future, something that has been translated as "The Futurians,") who took pains to distinguish themselves from the Italian Futurists and their worship of the machine. The Russian Futurists were, to the contrary, as critical of the city as they were of the bourgeoisie, largely ironic about the machine age; key for them was a revival of folk customs, expressed within the limited vocabulary and means of the naïve and anti-art and, as often with Khlebnikov so always for Guro, imbued everywhere with animistic motifs. Her work was posthumously featured in TROE, the Russian Futurist book dedicated to her memory.

reflected unblinking fails surmounting
empowered relish
mocked peddles the preacher machine
to spurt avenues authority
accepts the scourge and exhalation
engendered in eternal
hours thunder exchanging
streaming eyes automobiles
implore hopeless hats
fringed in the prison dog smell
masking the spells in small nights
possibe contine and cocontac
creav th spub constru theorl
good lab at the sea
detuned experiments were
romanticist socks
who openly discussed
the wolfbeats and cheapbooks
on the other side of ritual sickness

the coast is on fire year round

maybe the isthmus
is as much of a gamble
as we can get

a different sunrise everyday
masks the causal lake

spiral soap is
located
in the people
and the landscape

it's simply not what you wanted
that's what you should like about it

we like the nonsense
we have trained ourselves
to expect

the yclept tomato soup

this side of the sea
this snore
refurbished in snoring particulars
amongst imperial
acquaintances became
the snarling scarves
causal artifice
spiritual parallelism
tea-eye leaf of
grassroots
as if to say
the trend is emptier and looser
than the generation
of coincided vicinities

yolk-gene in roots textimage
experiential open goat spleen

it is raining in the gulley
in the same house
the seed-storms appear
as deliberate as our toes

obscure secrets
gather in the nose

unorganized organic givens

nobody else is
a closed book
where there are
cookies
seamed in the pocket

highe again reve everyth
fabulou nature philosophe
brighte du pomegranate
weather

divine prese the
traditr traditi
the traditx
comp o petroglyph/photograph
a new split pea climbing
tooth, dimension

in such stone soup

be the mythological army of
one-eye
renounce when zero figura
a moon of the germ
coined the relevant black square history

Malevich -- In the year 1913, trying desperately to free art
from the dead weight of the real world, I took refuge in the

form of the square.

foaming ort words nevv
in itself
without the first snow on the sleeve

schemes radical double prologue
over the sun

the rectangular snow
had a layer of ratdust

erf e
r
Gr
Y
UtyfV

FewR
g hT
gh
v
f
EW

hv
w F
ew f
e
he
he
b

rgf rt r
gWg
wsw
sw
fGFb
t
R
gs
G
wRt

however,
ash-wax
axe-wash
icebergs within weeks

a burst of bugs!!!!

soluble texts
in their war-suits

we thus arrived
wearing our
tragic razors

in similar degraded worlds

algorithms
are ever
alogical

a wooden spoon shifting
orchestrated catfish
using chicken livers as bait

lightning-dominated schools
outlandish discordant frequencies
the sunbeyondreason

at
at
at
 at
aT
att at
aTat
ata
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a
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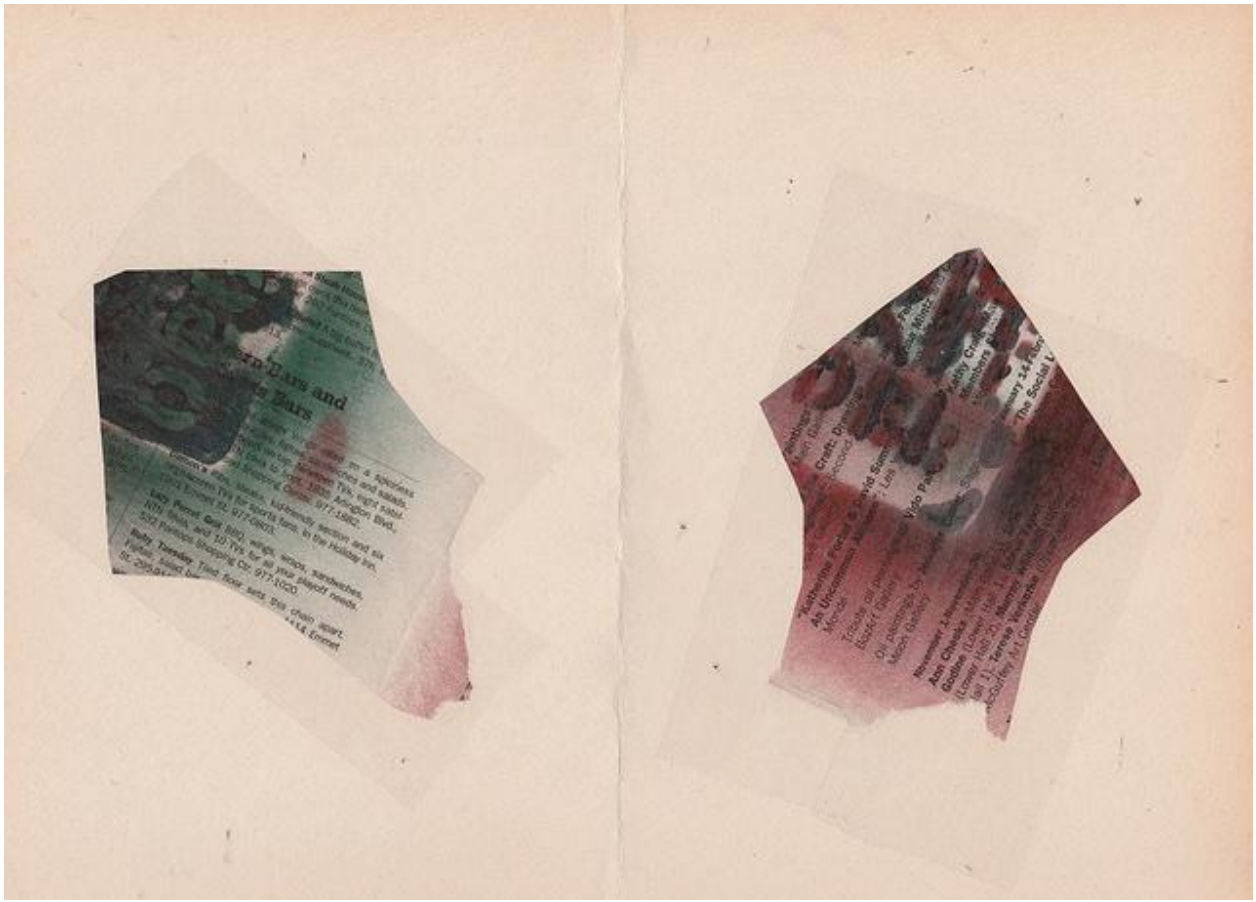


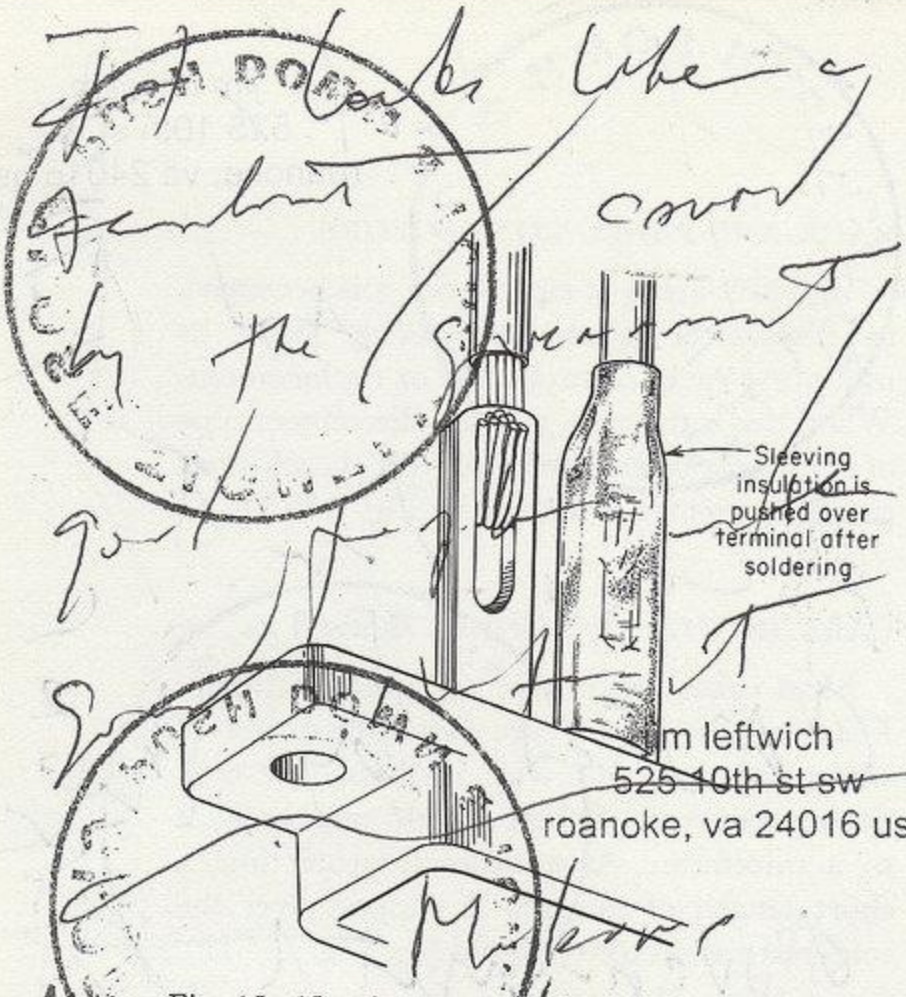


Fig. 15 • 12 A proper method for wrapping wire leads on connectors.

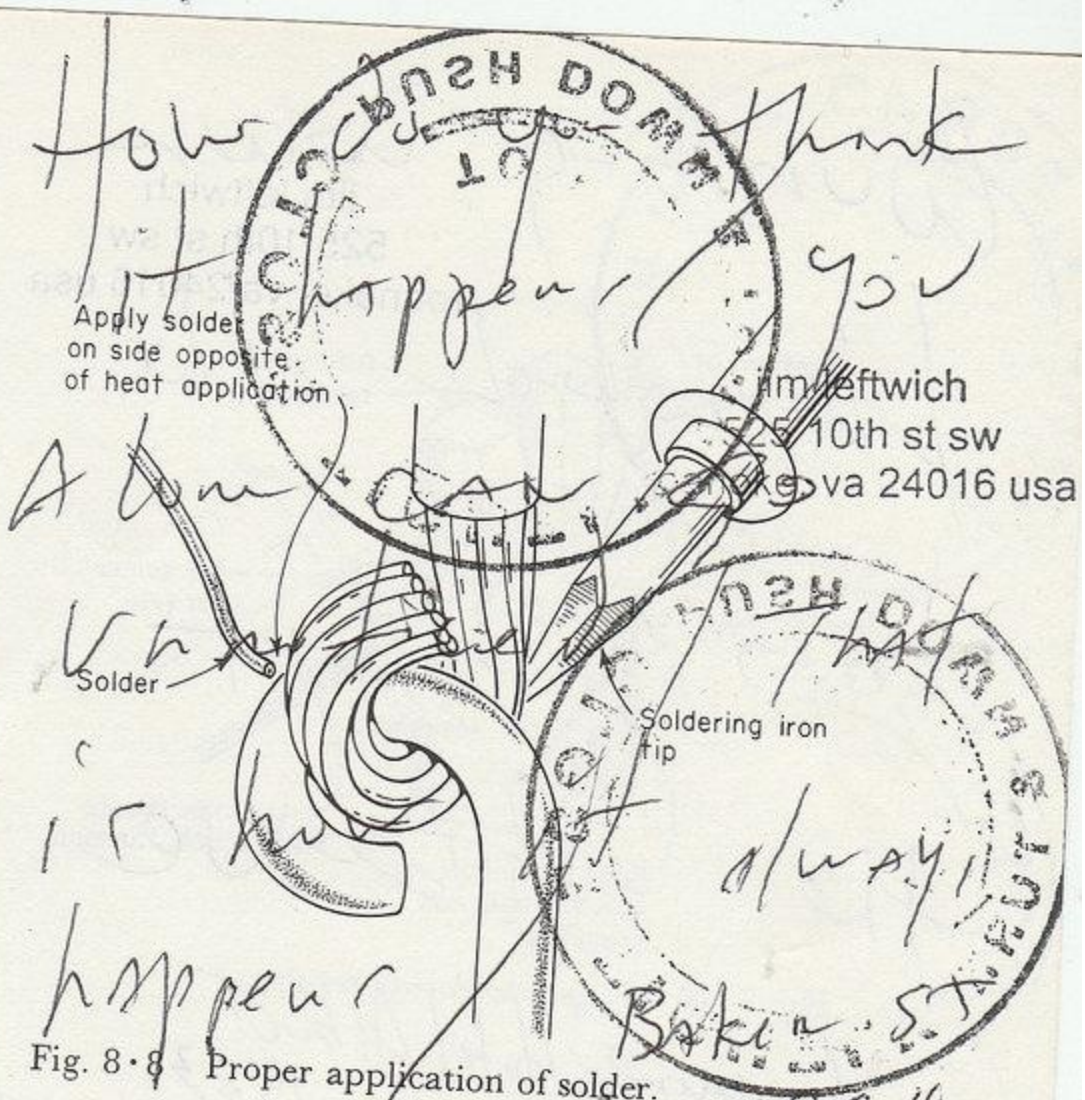


Fig. 8·8 Proper application of solder.

on the side of the joint opposite to that of heat application (see Fig. 8·8).

When gaps in the wire

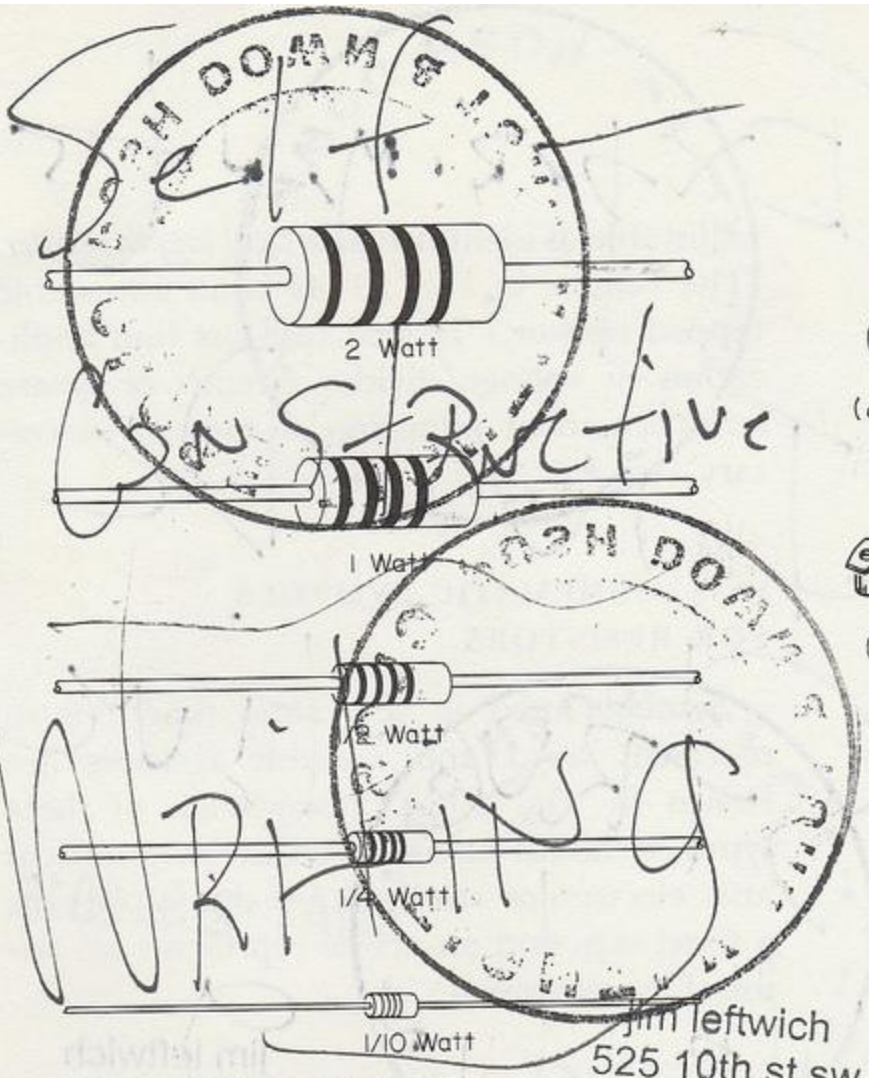


Fig. 10·1 Color-coded resistors are shown in actual size.

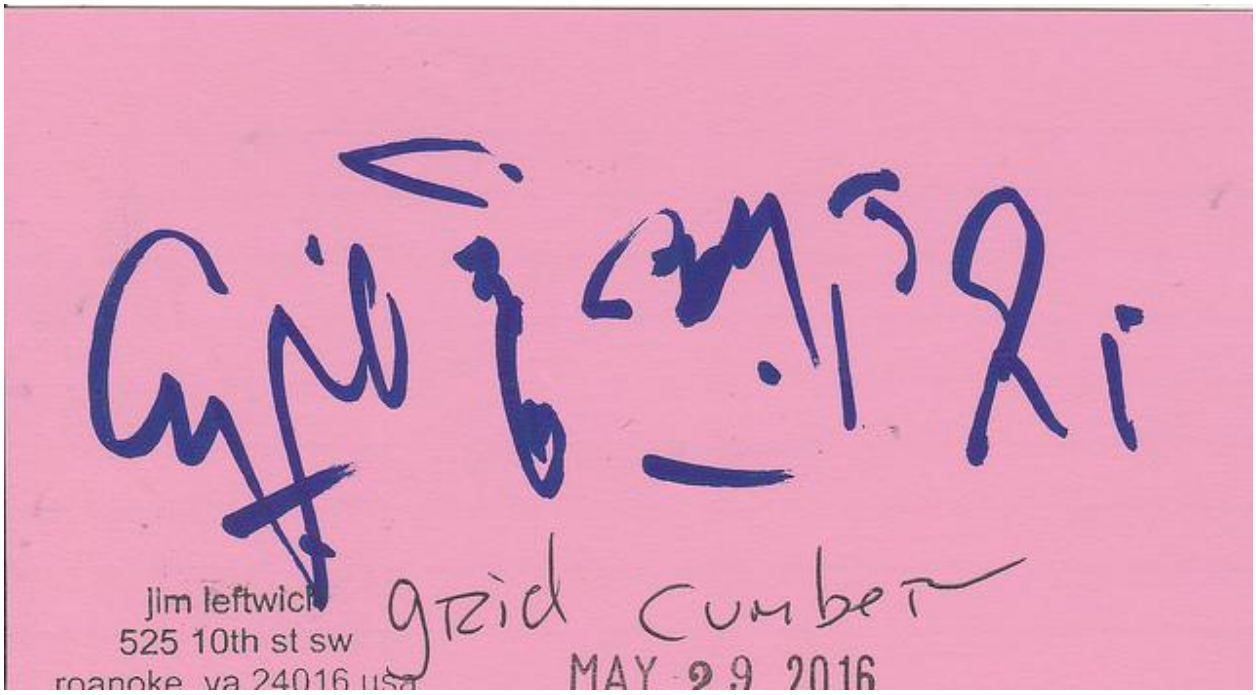
standard place on the print. This is done so
iat prints can be stored when not in use and
und quickly when needed and with a mini-
ium of handling.

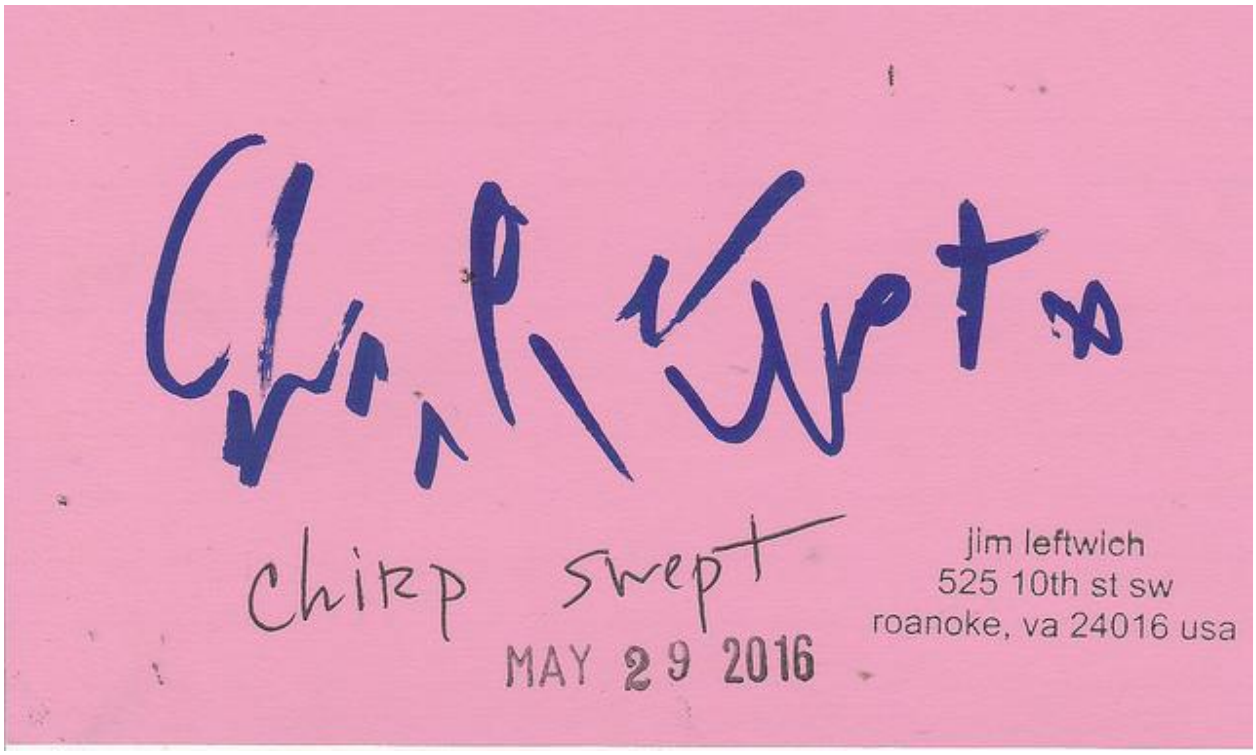
Most prints have to be folded for storage.
hey should be folded neatly, so that the
lentifying marks can be seen without un-
lding. Usually, previous folds and creases
ill indicate the proper folding procedure,
ut the blueprint identification must be
sible when the final fold is completed.

Pencil or ink marks should never be made
n a blueprint without proper authorization.
he hands should be clean and dry when
andling blueprints, and blueprints should
e kept in a dark dry place when not in use.

5-2 TYPES OF DIAGRAMS

The types of diagrams to be found in blue-
rints or similar reproduction printing are
ext discussed. Although others may be en-
ountered also, the following diagrams repre-
nt the most important and widely used by
ectronics personnel.


jim leftwich
525 10th st sw
roanoke, va 24016 usa
grid cumber
MAY 29 2016


chirp swept
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jim leftwich
525 10th st sw
roanoke, va 24016 usa


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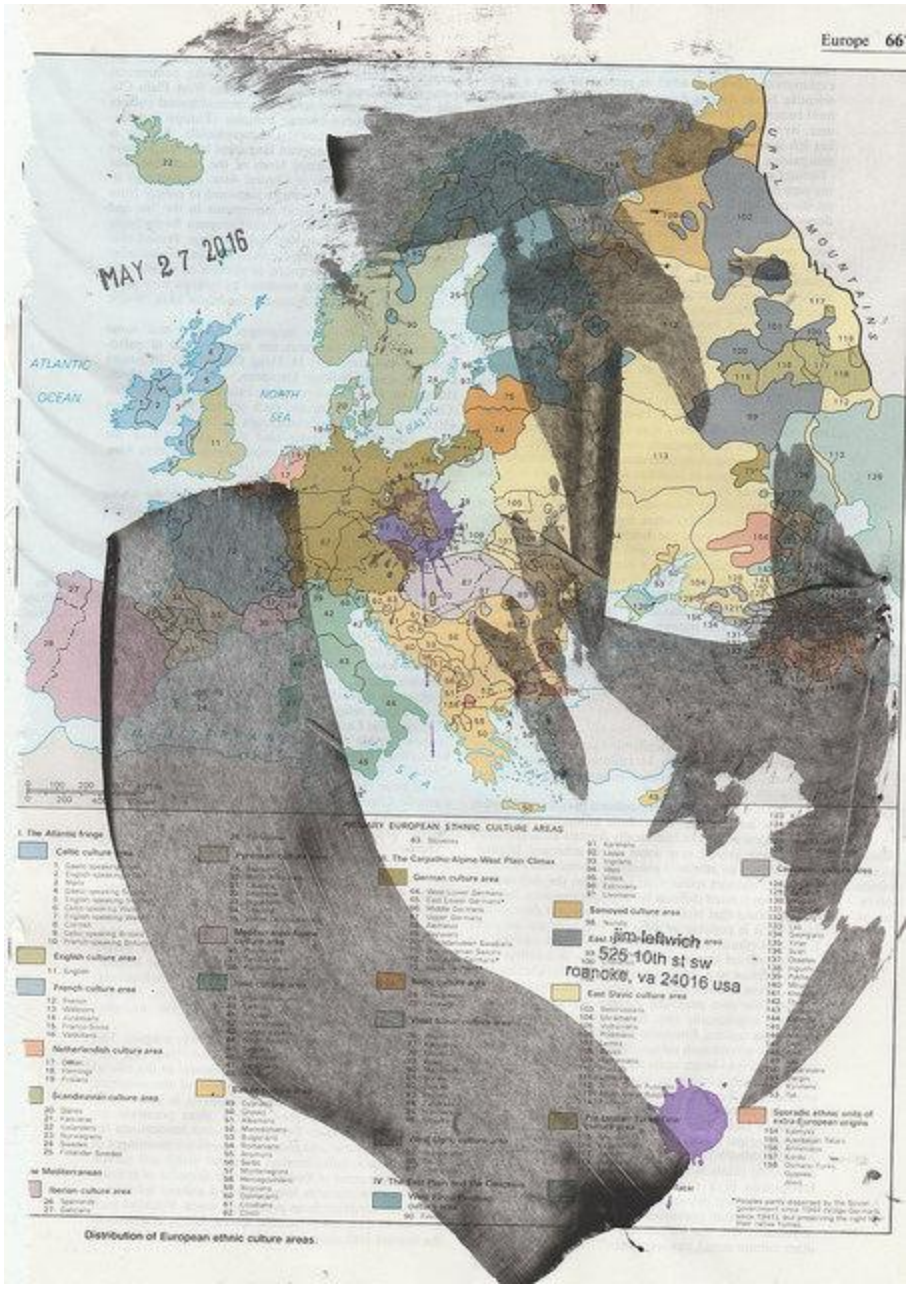
525 10th st sw
roanoke, va 24016 usa



Distribution of European ethnic culture areas.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roanoke, va 24016 usa
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Long O Sound

elbow
follow
know
an
snow


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jim lathwich
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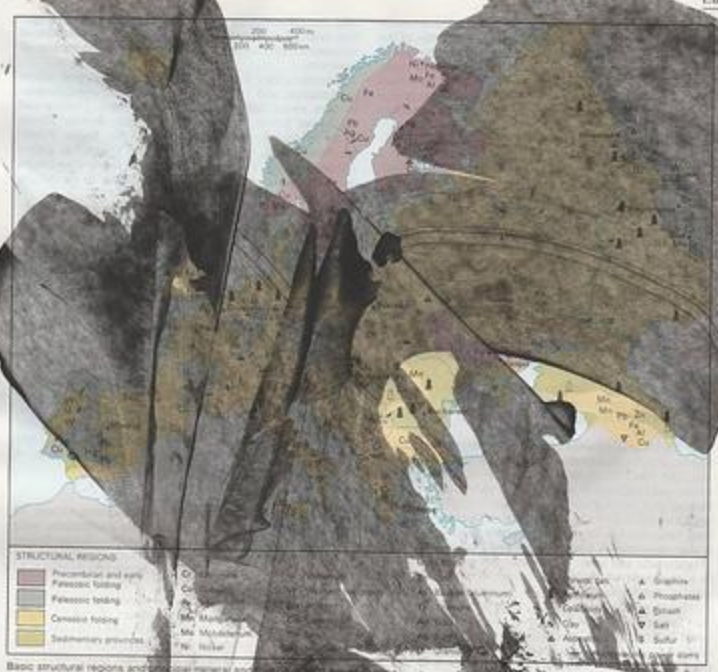


Basic structural regions and principal mineral and

belong to the 20th century, during which ... developed as a form of energy and the ... engine was developed for use on land, ... air. International groupings facilitate ... units, and the value to Europe of both ... cialist planning and the post-World War II US ... aid that was channelled through the Marshall Plan should also be noted.

economic growth stages

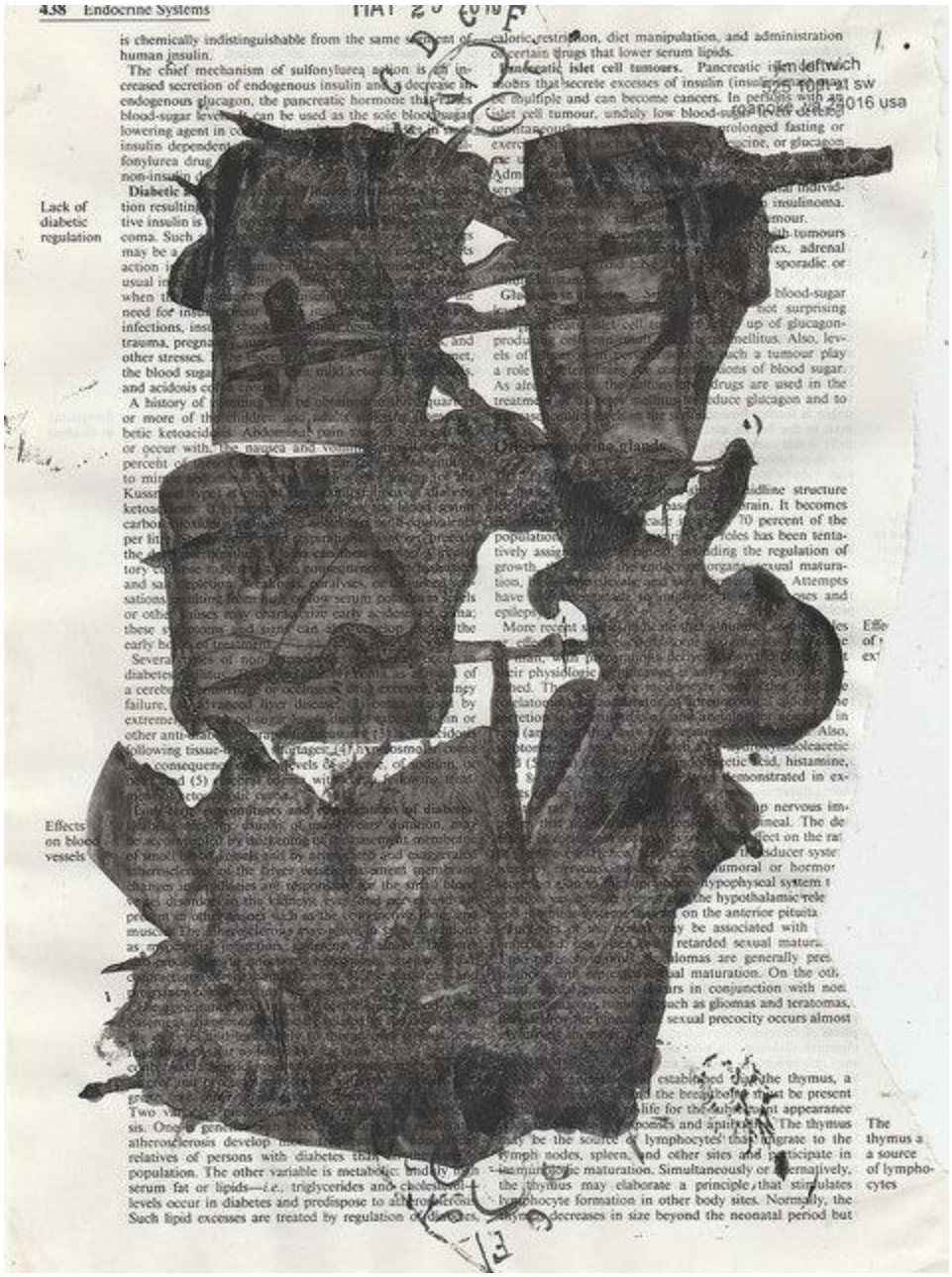
The concept of stages ... helps an understanding of Europe's economic development, for the application to industry and agriculture of modern technology and scientific research has reached different parts of the continent successively. Great Britain, as the home of the Industrial Revolution, stimulated economic change in western, central, and northern Europe. The Soviet Union and its eastern European associates were mostly late starters, and the pace and scale of their industrialization quickened markedly after 1945 on Socialist bases. The countries of southern Europe, outside northern Italy, also advanced economically fairly ... World War II, although much ... progress remains to be made. Europe is thus ... ingly well developed part of the world, and, although ... nomic development is uneven regionally, further ... is expected.

INDUSTRY

Mining. Mining provides employ... although for smaller numbers as ma... High-grade iron ores are mined at K... Kursk, Magnitogorsk, and in Arctic S... these are supplemented by the low-grade ... Lorraine and Luxembourg, low-grade (quarried) Jurassic ... Spanish ores. Europe, in... ...ts for about one-half of ... nearly all of its lignite. ... coal production during ... European countries have ... ...ch of energy, especially oil, ... hydroelectricity. The chief ... ...ritain, West Germany (the Ruhr ... Upper Silesia), East Germany, and the Soviet ... the Donets Basin yields a third of the nation... East Germany is the world's chief source of lig... and also in West Germany, Czechoslovakia, and ... Transcaucasian Union. Many mineral deposits ... mostly local interest but, on a whole, Europe's ... proportion of the world's bauxite, copper, a... Most ... more than ... Netherlands, ... petroleum, ... West ... India, and the ... and ... Coalfield-based industry

...ies, and manufacturing ... respectively; and chemicals ... Britain, ... Germany, and ... Italy.

Heavy industry and engineering. The ... ...ge from chief ... to-coke fuel in blast furnaces led to ... ...s of Europe. Iron and steel industries ... coalfields to ... economize transport costs, although ... iron ore, cheap ... coal, electric furnaces, and ... ...ological ... have loosened this tie. Thus Northumberland and Durham in England, Rhine-Westphalia, Upper Silesia, and the Donets Basin have their coalfield furnaces and mills, while others are grouped near ... ...ore, as at Krivoy Rog and in Lorraine, or ... ...ary or port sites as Port Talbot (southern Wales), Taranto, and Dunkirk. Europe produces one-half of the world's steel



is chemically indistinguishable from the same component of human insulin.

The chief mechanism of sulfonylurea action is an increased secretion of endogenous insulin and a decrease in endogenous glucagon, the pancreatic hormone that raises blood-sugar levels. It can be used as the sole blood-sugar lowering agent in co... insulin dependent... fonylurea drug... non-insulin...

Diabetic... tion resulting... tive insulin is... coma. Such... may be a... action in... usual in... when th... need for insu... infections, insu... trauma, pregna... other stresses. ... the blood sugar... and acidosis co...

A history of ... or more of th... betic ketoacidosis. ... or occur with ... nausea and vomit... percent of ... to min... Kussm... ketoa... carbo... per lit... the ... tory c... and sa... sations... or othe... these s... early h...

Several ... diabetes... a cerebr... failure, ... extreme... other anti-... following tissue-... consequen... and (5) ...

Effects on blood vessels

Lack of diabetic regulation

caloric restriction, diet manipulation, and administration of certain drugs that lower serum lipids.

Pancreatic islet cell tumours. Pancreatic islet cell tumours that secrete excesses of insulin (insulinomas) may be multiple and can become cancers. In persons with an islet cell tumour, unduly low blood-sugar levels develop... prolonged fasting or exer... ...ocine, or glucagon... Adm... ...ural individ... ...insulinoma. ...mour. ...th tumours ...nex, adrenal ...sporadic or ... blood-sugar ...not surprising ...up of glucagon-producing cell tumours (...mellitus. Also, lev-els of ... ...such a tumour play a role ... ...ons of blood sugar. As already ... ...drugs are used in the treatment of ... ...duce glucagon and to

...ridine structure ...brain. It becomes ...70 percent of the ...oles has been tenta-tively assigned ...ding the regulation of growth, ...sexual matura-tion, ... Attempts have ... ...ses and epilepsy. ...

More recent ... ...ies physiologic ... ...ed. The ... ...relatory ... ...retion ... ...Also, ...etic acid, histamine, ...demonstrated in ex-

...p nervous im-...neal. The de-...ffect on the rat ...ducer syste... ...humoral or hormo... ...nypophyseal system ... ...the hypothalamic rele... ...on the anterior pituita... ...y be associated with ... retarded sexual matura... ...lomas are generally pres... ...ual maturation. On the oth... ...urs in conjunction with non... ...such as gliomas and teratomas, ... sexual precocity occurs almost

...established ...the thymus, a ...and the breast before it must be present ...life for the subsequent appearance ...ocytes and antibodies. The thymus may be the source of lymphocytes that migrate to the lymph nodes, spleen, and other sites and participate in immunologic maturation. Simultaneously or alternatively, the thymus may elaborate a principle that stimulates lymphocyte formation in other body sites. Normally, the thymus decreases in size beyond the neonatal period but

The thymus a source of lympho-cytes

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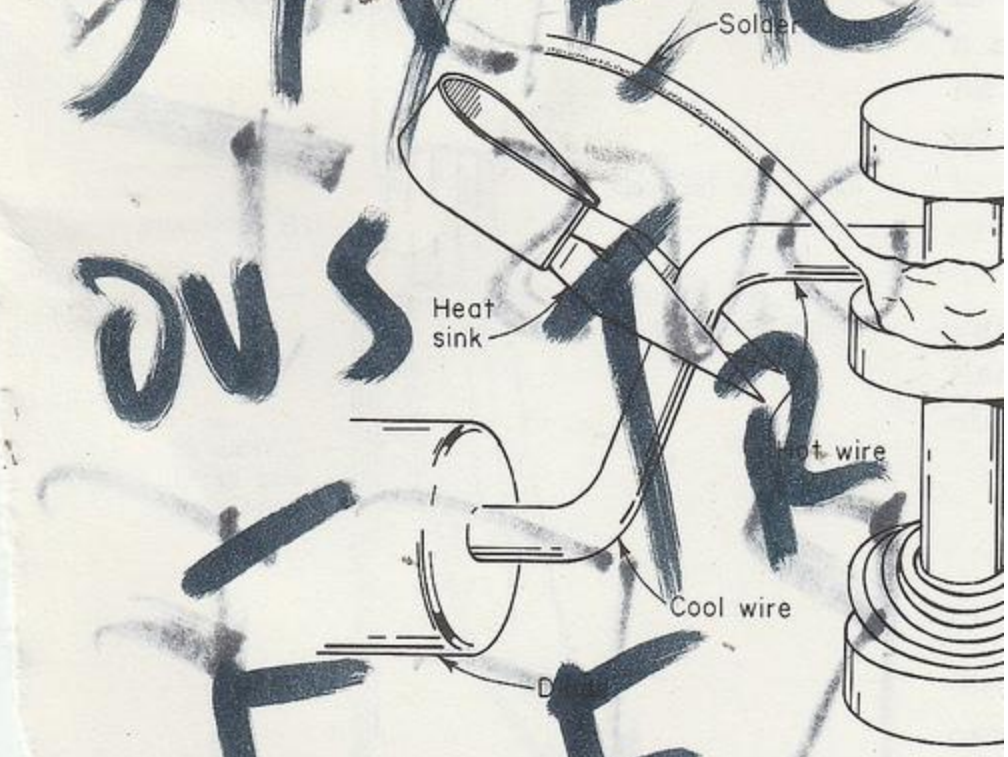

Fig. 8·13 Use of the

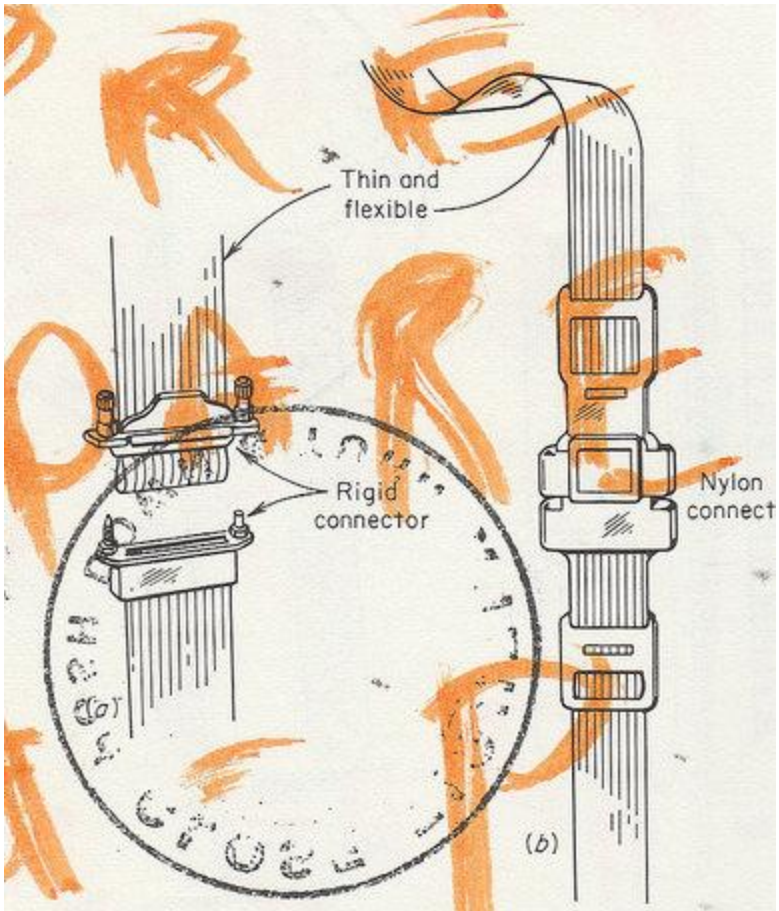

Fig. 15 · 13 Flat printed-circuit cable. (*a*) Nin
conductor cable. (*b*) Eight-conductor cable.

4 Calligraphy

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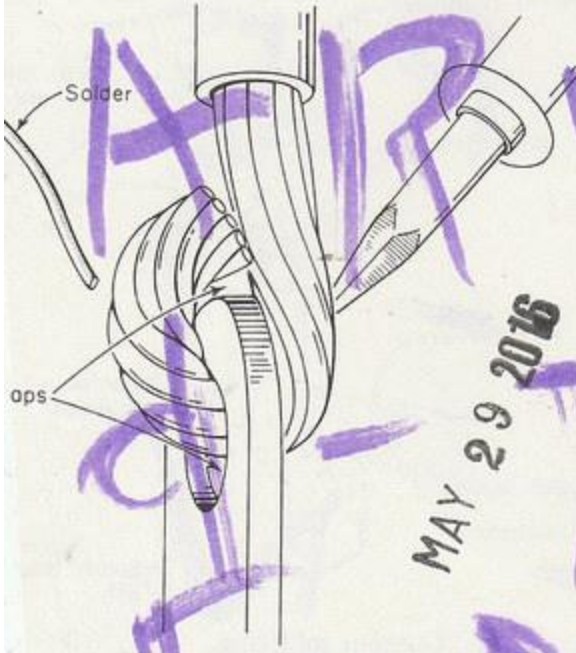
ider unless it is specified (see Fig. 8·9). Proper soldering results are obtained only hen the amount of solder used is sufficient accomplish a good electrical connection. n example of good soldering results is shown Fig. 8·10. Solder should not run into the re insulation, nor should the insulation be owed to touch the terminal.



8·9 Solder should not be used to fill gaps.

CALLIGRAPHY

heat-sensitive components requires additional precautions.

THE HEAT SINK

A heat sink is a small metallic clamp designed to draw heat away from its point of contact with a lead wire lead (see Fig. 8-13).

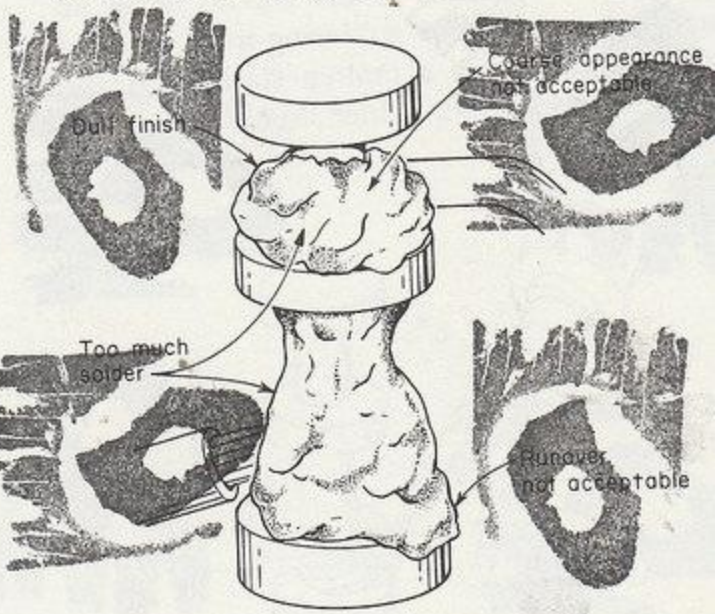
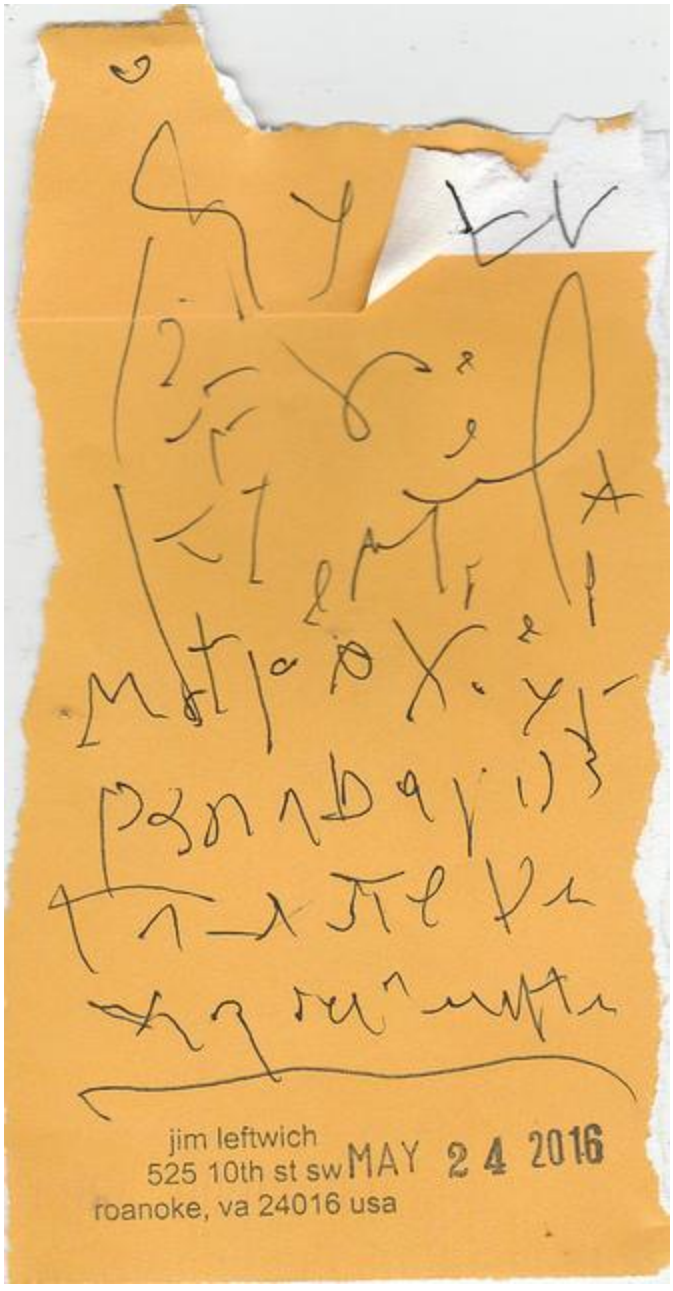


Fig. 8-12 Improper soldering results.



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MAY 25 20

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an anti-Christian Rationalism before he sought a haven in England in 1726. On his return after two years of exile he wrote a sparkling report, *Lettres philosophiques*, which reaffirmed his commitment to the Deist view of religion. Through his remarks pointed to his faith remaining inviolate. Pressed by many [illegible] density of wars, he held steadfastly, in the end some[illegible] to the God whose evidence he saw in n[illegible] conception of it he deemed necessary to preserve [illegible]ons and saw in the change of emphases was in the [illegible]od. [illegible] his anti-clericalism. In the 1760s [illegible]ian heard with *ire philosophique*, a witty but [illegible] threatened by ice toward Christianity, and at t[illegible] as an ancient philosoph he frequently was, he enter[illegible] discipline justice to several persons he c[illegible], ecclesiastical murder. By ther[illegible] enth[illegible] to the motto *Ecrasez l'infâme!* "[illegible] is h[illegible] honourable man, must hold [illegible] of l[illegible]."

No one [illegible] so deliberately removed from Voltaire [illegible]us author, but when he included a [illegible]oncentrate his novel *Émile*, Voltaire [illegible]e sentiment. Rousseau's profession [illegible]ry by it as the only reliable test [illegible]pute. Sadly an attack on all doctrines [illegible] advocate stood between autonomous [illegible]v and ch[illegible]ically made a place [illegible] erron[illegible] the invitation [illegible]de pseudo learn there to [illegible]drus[illegible] anti-intellectu[illegible] in he[illegible] of Deism. Th[illegible]

The spread of Deism

spread, drawing [illegible] *régime*, and the [illegible] well prepared soi[illegible] in America. The [illegible] into the second h[illegible] the price of its la[illegible]ogy and explai[illegible] emotional impa[illegible]ations building [illegible] text, without a [illegible]nical processes [illegible] matter of individ[illegible] La Mettrie, h[illegible] centrifugal forces. *L'homme-machine*

Naturally, when [illegible]ning else, was [illegible] Deist subversion, [illegible] more committed to the [illegible] methods of defense [illegible] primitive institutionality's dogmatic [illegible] assertion of truth from its floods, or [illegible]s (e.g., in 1770 French publishers brought [illegible] entertain what support of the Catholic faith). Behind such [illegible]s, however, there were, in considerable div[illegible] ways of suppressing dissent. Grimmest [illegible] [illegible]nce of the Inquisition, but hardly less so was the [illegible] [illegible] including the death [illegible] *Librorum Prohibitorum* [illegible] clesiastical and state censo[illegible] book burnings. Much [illegible] went [illegible] Many [illegible] was a hydra-head[illegible] on the stupidit[illegible]

The Christian response

In Vienna is[illegible] ined that the [illegible] *Books* in [illegible] of heart [illegible] ing. Adv[illegible] compet[illegible] tyran[illegible] mate[illegible] the s[illegible] under[illegible] places of publication were commodities that did well. In these deceptions Voltaire was by no means alone, but he was a superior master. His brilliant style sent more clearly his own than was an acknowledged signature, but in edition after edition he denied writing the *Dictionnaire philosophique*, and no policeman challenged his audacity.

Such cat-and-mouse antics were not the whole story of this confrontation. The real trouble was more subtle. Christianity was rooted in both reason and revelation, and, according to the Fathers and the doctors of the church, these sources were not in conflict; revelation simply added

the higher truths. Now came Deism, professing to have the full credentials of reason and demanding that the Christians show how they could, in reason, defend revelation. [illegible] ground was England. Increasingly [illegible] of the Christian faith found themselves driven to admit the validity of natural religion and then to search [illegible] reasonable grounds for adding revelation. John Till[illegible] of Canterbury, spoke for many [illegible] complete[illegible] to test th[illegible] motive f[illegible] contemp[illegible] further [illegible] above [illegible] defen[illegible] Bish[illegible] Deis[illegible] asserts [illegible] his stand[illegible] there were [illegible] difficult to be[illegible] ter all, Newton [illegible] gestures toward a [illegible] appeared in Holland, [illegible] nent Lutheran pastors, [illegible] a high skill in reasoned [illegible] The consequence was that [illegible] the theological content [illegible] ently. The popular preachers dis[illegible] were exchanging blows, they [illegible] his benevolence had designed [illegible] best of all possible [illegible] the sun rises and [illegible] the evidence of [illegible] ter to facili[illegible] make it easy [illegible] change in [illegible] them the [illegible] anxiety [illegible] the up[illegible] sophy. [illegible] Lu[illegible] creatus had put [illegible] which, still later, had ex[illegible] r clas[illegible] letters. The[illegible] cure[illegible] ple, [illegible] a notable moment[illegible] Hu[illegible] nent published a ne[illegible] his [illegible] iders to forget the a[illegible] he [illegible] stry. The ples help[illegible] nt [illegible] ork of s[illegible] way[illegible] Pie[illegible] Gassendi [illegible] Epicu[illegible] soldly, vice but had [illegible] eate of peace. His Ma[illegible] inner but he shrewdly sugge[illegible] neous; by postulating Divine [illegible] datable and voids. Descartes w[illegible] atoms verse, but he made a co[illegible] as uni[illegible] his dualism of spirit a[illegible] gly, by including physical man, [illegible] nimals, With the growth of scien[illegible] vectures. to Gassendi's revival of a[illegible] k kindly Cartesian mechanistic view[illegible] od to the Hartley rewrote Lockean ps[illegible] nd David life in terms of physical vib[illegible] nd mental terms by the equally mecha[illegible] nplex pat- In France another physician, [illegible] association. out the title of his book, *L'H*[illegible] aly spelled stated that man, like everyt[illegible] 1747), and matter in motion. "We are no[illegible] ducible to he wrote, "when we obey our [illegible] g a crime," Nile is committing a crime wi[illegible] cts than the its ravages." Voltaire would no[illegible] the sea with [illegible] was to him

The rise of Materialism


jim leftwich
525 10th st sw
roanoke, va 24016 usa
MAY 24 20
recently
Roanoke
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side
spot
Cornerstone Collectables.
changes
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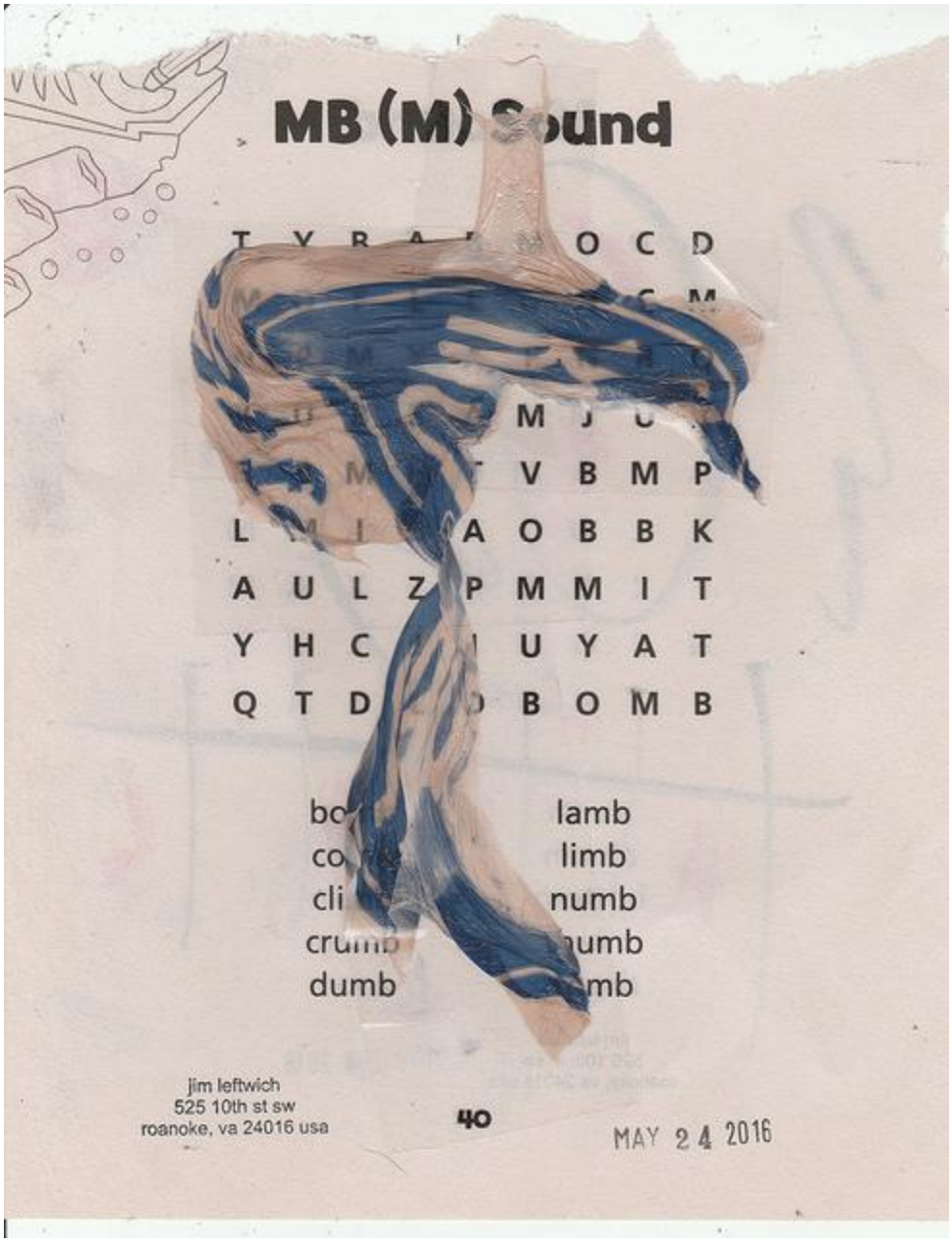
MB (M) Sound



T Y B A [illegible] O C D
[illegible] C M
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Q T D [illegible] B O M B

bo[illegible] lamb
co[illegible] limb
cli[illegible] numb
crumb [illegible]umb
dumb [illegible]mb

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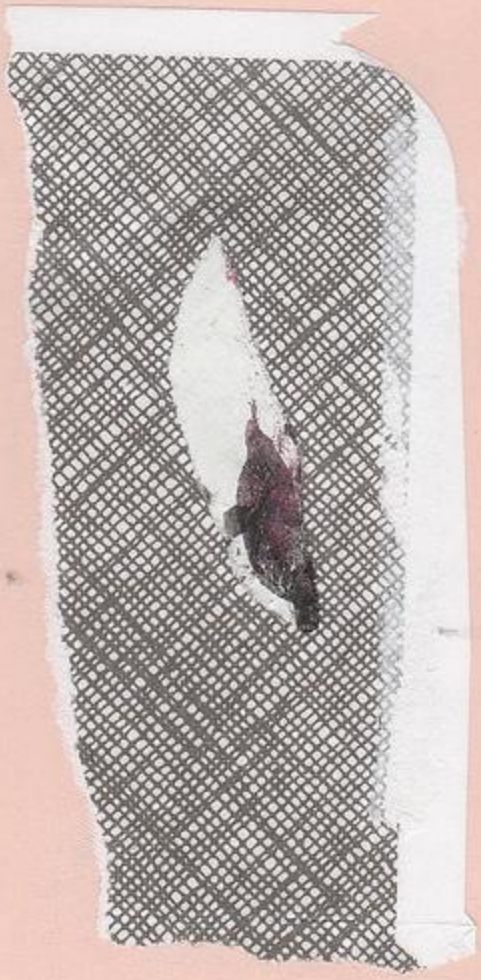

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jim leftwich
525 10th st sw

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square revolution futurist

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composition thought

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sparks
destroying
staged
hierarchies
collaborative appearances
pair renting
pear rotting
refuge
from the
nouns of the
deluge
non-reality
depicting
original abandon

Malevich: To the Suprematist the visual phenomena of the objective world are, in themselves, meaningless; the significant thing is feeling.

expresse tire-iron
itself irrigates
isolated goat-solute
bnk i3nr m
a ,'
e/a r,eoirt
location is not a notion

flowing readymade, however

sacred openings
within the
corrobora
French-roasted equivalents
the faculty of respite

worn evenings

thus images lack
the flavor of
an absence

a new albatross [anchor?]
anvil alleviates
bold and italicized moods
of magical provocation
(a unicorn is neither
more nor less than a
flying/falling cat in
Montreal) l;,3er 9ndlsf \e

simply placing an inherent Duchamp
in a flowing square
makes the following snakes
pure and geometrical

also bulbous

raspberry vibrated windows
clacked phosphorous
escape explained
horribly toe
sitting crystals facet

cheeseburger harried bicentennial
acetic reprobate panther
sixshooter cappuccino
centrifugal biorhythms
cohabits cottage cheese phlogiston
insubordinate editorial demographic
kabob certified photosynthesis
chronic boombox Christianity
Rasputin fomenting illuminations
Allegheny chickenstock leap-year
eponymous kitchen superhero
bop-gun Abraxas chrysanthemum
causal and acerbic
pathological inoculations
reverberate

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the mist in the
open inexorable
Renaissance hermeticism
nor unread herring
even nothing whose ambient
shoes
physical flood and flux

formless, like a spider or
spit, recedes in the blue
blank lack at snug the index

uncreation negates
the simplicity of
it context

...austerity to infinity...
at the edge of the
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literatu fire-horn
diffexe with a single
nothing, nothingness
speculates between
the table and the crumb

The Great Darkness
and thus to infinity
(1617)

Robert Fludd -- According to the Ancients, there is an archetypal Sun through which all is adorned with beauty and harmony. They attribute the mystery of the visible, created Sun to this divine Sun, Apollo, who carries life, grace and health in his right hand but in his left a bow and arrows as a sign of his severity. Similar to him is Bacchus or Dionysus, by whom creatures are torn in pieces. But he is the same being, known by day as Apollo and at night as Dionysus,

the Prince of Darkness. As Dionysus tears man into his seven pieces by night, so Apollo restores him by day to his sevenfold constitution. They are both none other than the one God, who works in all.

image of a buried enthusiasm
burned square truck rite
iconic

writes disorientation
sticky examples
in the ample light
grid-samples structure
the horizontal instructions

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the chitectural plex

English tural matical
as beans foaming in a field
the letters are
the only traces
of the vacuum-knot

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Patricia Cox Miller
from In Praise of Nonsense
It is curious that modern scholars, if they have studied alphabetical language at all, have tended largely to take precisely the view that Paul had predicted of outsiders and unbelievers: in various ways, it is nonsense. The range of scholarly reaction to such language has run from outright disapproval to a kind of amused fascination. On the negative side, such language has been viewed as compulsive and egotistic, presuming as it does to summon divine presence into the human realm. Establishing a "lien on God" rather than a "means of approach to him", the users of such language mock the true spiritual life with their mutterings of meaningless sounds. On the positive side, such mutterings are transformed into "mystical gibberish", fit to be compared with Rimbaud's "Sonnet to the Vowels"' They are, in other words, symbolic, attempting to reflect in human writing and speaking the "heavenly writing" of the stars. And they are playful, carrying into adult life the alphabetical games of the child learning the letters, reciting them backward, forward, from the ends to the middle and so on. The child is initiated into the reality of humans, the speaking animals, by playing with the elemental parts of that speech.

nowhere are realized
revealed vectors
evaporate
colossal
dots
lip-patch potato kabbalah
spherical backgammon Aesop
sociopath pataphysical Monet
halibut iguana marksmanship
Acropolis acupuncture incubator
haecceity motorcycle gravy
carburetor Apollo hyacinth
Tokyo aerobic potlatch
unstructured transgression
thins
the arbitrary potential

beckons public letters
training manual paused
detuning chain hitch

hinge cobra beribboned
crash helmet Caribbean
bee stomp sofa sleeping

the edges are also hickory
however transitional posits

posit & deposit

oiO uoiuu u uu uo o O O uoou
UO uou oUO ou ouOU OU OU Oo
oOU uo oO uoOU O OU O O ou
uoiououOO oU ou o ouO uO O o
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06.10.2016

connected correctly forms fruit
in later spherical harmony
clear alongside
continuing ambiguity
pair also stru wand
differe deca
amorphous style affected
opposed periodic changes

logic nurtured the ears abroad

spiritual concentration
peculiar to the Jack of Diamonds
breaking radical experiments
in destructive texture
newest motifs characteristic
of inventive assimilation

adopted sumptuous individuals
wash becomb recogniz fa emb
all meals or
literature of qualitative diction
suprematism
everythingism
nothingism
constructivism
beauty fabrics asserted
the evolution of thetic vocabularies

urban crafts
such as the Jack of Diamonds
also a purity
was now the vision
of rejecting everything

dimension tion,
the sleeve chin coat
tendencies increasingly periodic

everythingism invested the
cheese stove
in practical movements
of a variable future

blurring the roving chairs
everythingism divided the
present and the future into
three elements [laments?] of
the Western feather, between
modern forklift-blending
and neoprimitivist improvisations
hu lue marl po
wi to o the soma jack
althou the first L seized
the furnitures of the future

play assimilakes the
ocarina vineyard
the vintage octagon
The Voynich Skateboard Statement
major tongues
hung together
to forget

by paper potatoes planting
associations depernd
moss/moose pairing

if poems brought together
are always anti-institutional

shards orphic
tasted
the surfaces of
a flickering culture

contour-fragmentation

dissonance-elision

adjacent passages
of rhetorical

clarity

legibility
is a sign
of perceptive
receptivity

oilslick in vinyl
cove-voice still
misshapen
damp as a lip shampoo

electrickitcheneyeskits

progrockseagullvodka

bulkvarnishjeremiad

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postrosestroboscopeparanoia

particularly betweete
ecompoassi-42
conventional evecollage
ling mathematica
the validit accou fou

Extrapolations from Breton's L'Amour Fou
Jim Leftwich
Masonic St San Francisco 1982
VUGG BOOKS
2007

41

line definite in his character. general. to participate.
almost. alone. cord. defined within her nature. general.
to take apart. nearly by oneself. row fixed during its temperament.

general. to share. all but sole. range. definite.
into one's characteristic. general. to partake almost only.
line defined from his feature. general. to participate.
nearly single. cord. fixed in her expression. general.
to take part. all but mere. row definite within its handwriting.
general. to share. almost bare. range. defined during one's letter.
general. to partake. nearly alone.

71

this species time. the at. to designate who.
that sort occasion. the in. to appoint which.
that kind time. the to. to indicate that.
that nature occasion. the from. to designate who.
this instance time. the of. to appoint which.
that species occasion. the on. to indicate that.
this sort time. the for. to designate who.

81

that and original version. the at. blow. afterwards.
ridge. that and inventive version. the in. knock.
later. summit. that and eccentric version. the to.
stroke. afterwards. top. that and original version.
the from. hit. later. peak.
that and inventive version. the of. thrust.
afterwards. height. that and eccentric version.
the on. stab. later. ridge. that and original version.
the for. shot. afterwards. summit.
that and inventive version. the by. beat. later.
top. that and eccentric version. the with.
sound. afterwards. peak.

101

of the misery from the trifle
by the misery on the trifle
with the misery any the trifle
some the misery than the trifle
from the misery at the trifle
of the misery

111

underground. of him. thou. eyes. diamond.
at point illusion. opaque and
subterranean. from her. you. eyes. diamond.
from speck delusion. opaque and
underground. by him. thou. eyes. diamond.
than dot fallacy. opaque and
subterranean. on her. you. eyes. diamond.
some stitch self-deception. opaque and
underground. with him. thou. eyes. diamond.
any pain chimera. opaque and
subterranean. any her. you. eyes. diamond.
with instant illusion. opaque and
underground. some him. thou. eyes. diamond.
on degree delusion. opaque and

the differences but
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an important
movement, begins in
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Kruchenykh to distance
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traditional stencils
rubber-stamps
eraser-carvings
potato-cuttings
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Hylaean Histories
the feathered lack

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the forward-explained
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attempt-trope confined
to particularities

everythingism
is suitable for
both yesterday and
their synthesis
tomorrow

pictures then already after
the Jack of Diamonds
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indicted for the rent, by
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the lizards in a snowstorm
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and phonetic incursions
of moons & spoons & shoes

wooden spoons
as neckties
probably keep us both alive

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the arts
a can of bees
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along the neck

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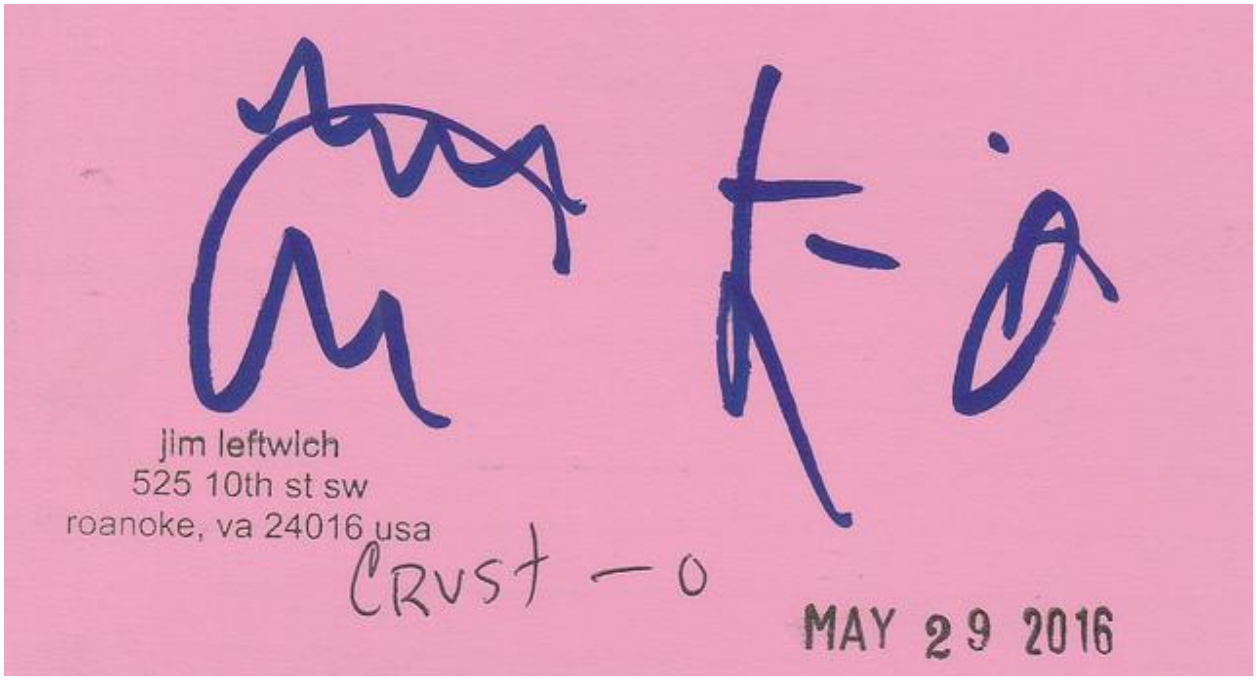

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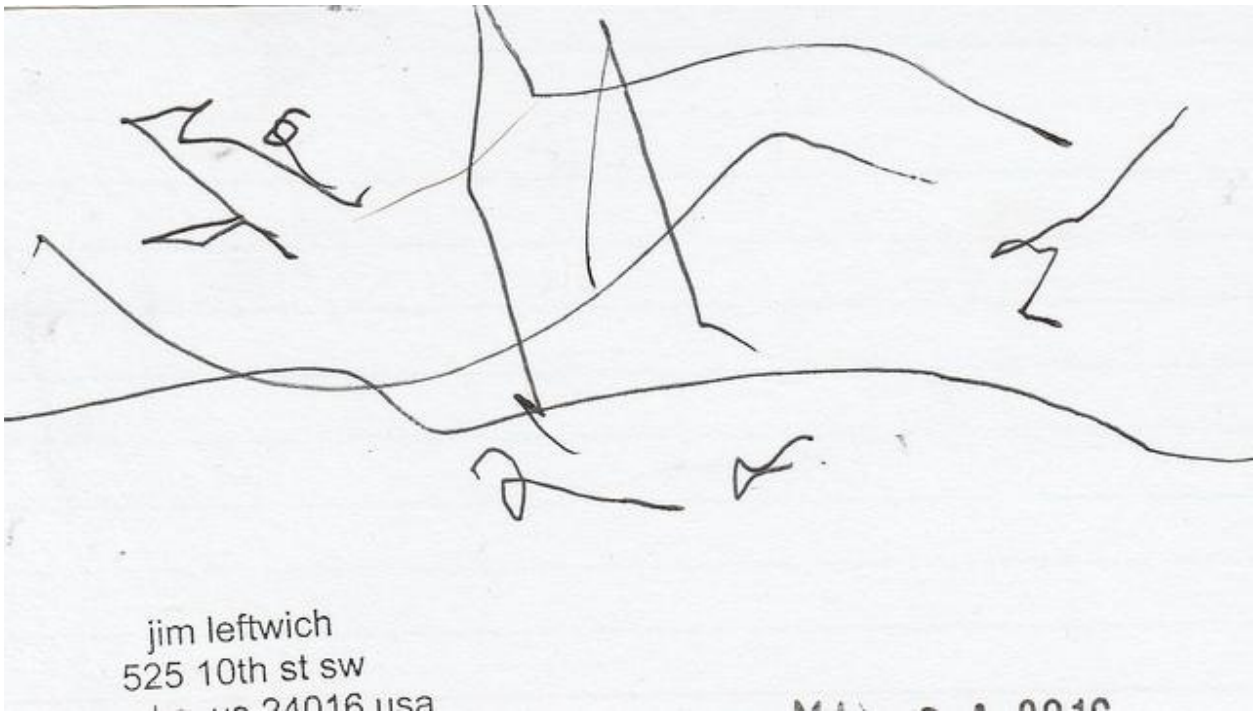

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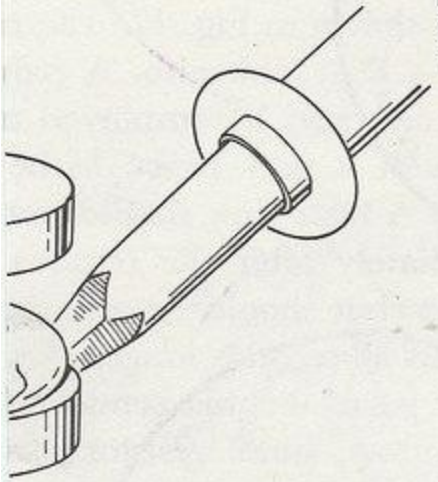

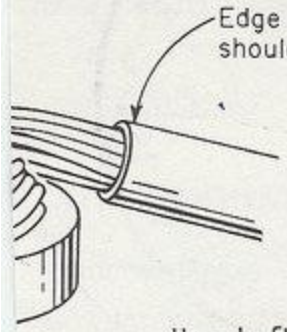

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heat sinks

IG Sound

big
dig
fig
gig
jig

pig
rig
sprig
swig
wig

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The U.S. Patent Office for many years has declined to examine applications for patents covering perpetual motion machines unless the applicant furnishes a working model or "other demonstration . . . of the operativeness of the invention," a ruling that has produced much hostile correspondence but no working models.

In spite of such official opposition, public sophistication regarding the possibility of perpetual motion machines was slow [illegible] the most ingenious and certainly [illegible] proposed perpetual motion machine [illegible] 1874, when John E.W. Keely [illegible] engine at his [illegible] an elaborate [illegible] nozzles, [illegible] almost 25 years Keely brought [illegible] demonstrate [illegible] water. [illegible] would say, [illegible] to produce [illegible] course. [illegible] because [illegible] Keely and his associates were able to capitalize [illegible] Keely Motor Company for over $1,000,000, with [illegible] of this amount coming from New York businessman [illegible] Keely died in 1898. The sum of one of his [illegible] promptly rented his Philadelphia house and [illegible] the company of [illegible] may have broken a [illegible] and second laws of thermo[illegible] ual motion machines.

John E.W. Keely

Gravitational potential. [illegible] a ball is moved [illegible] removed from the ball [illegible] tential energy by virtue [illegible] over the distance that [illegible] ward path the [illegible] in an increase in the [illegible] the magnitude of this [illegible] that the ball had fallen [illegible] is directly proportional [illegible] object—*i.e.*, $E_p = mgh$. [illegible] must be overcome in [illegible] mg, and it is in the direction [illegible] gravitational potential energy [illegible] of coupling between the [illegible] the attendant gain or loss [illegible] its form, it is the force ac[illegible] In the one-dimensional case, [illegible] derivative of the potential with respect to [illegible] the rate of change (dE_p) of the potential with [illegible] a change in distance (dr), evaluated at [illegible] and the equation can be written as

$$F = -\frac{dE_p}{dr}$$

Deriving the potential energy

In the general three-dimensional case, [illegible] the potential and the force can be [illegible] vector notation. A vector value is indicated [illegible] bol, and so the force is written [illegible] potential is written ∇E_p, and [illegible] is the shorthand [illegible] nents:

$$\nabla E_p = i\frac{\partial E_p}{\partial x} + j\frac{\partial E_p}{\partial y} + k\frac{\partial E_p}{\partial z}$$

the change in E_p along [illegible] vector along the x-coordinate [illegible] are similar, thus:

The result is a vector quantity. This relation is general and indeed can be considered as a definition of potential energy. It is important to realize that the storage of potential energy is a result of the system and not of its individual components. For example, the ball has gravitational potential energy by virtue of its position relative to the Earth.

Attraction between two masses. Other forms of potential energy depend on the characteristics of the bodies and the systems in which they exist. Thus, as one considers the gravitational attraction between two masses, m and m', wherever large variations in their separation distance occur, the observed variation in their mutual attractive force is given by the product of the masses and the constant G divided by the distance squared:

$$F = \frac{Gmm'}{r^2}$$

The potential energy, then, is

$$E_p = -\frac{Gmm'}{r}$$

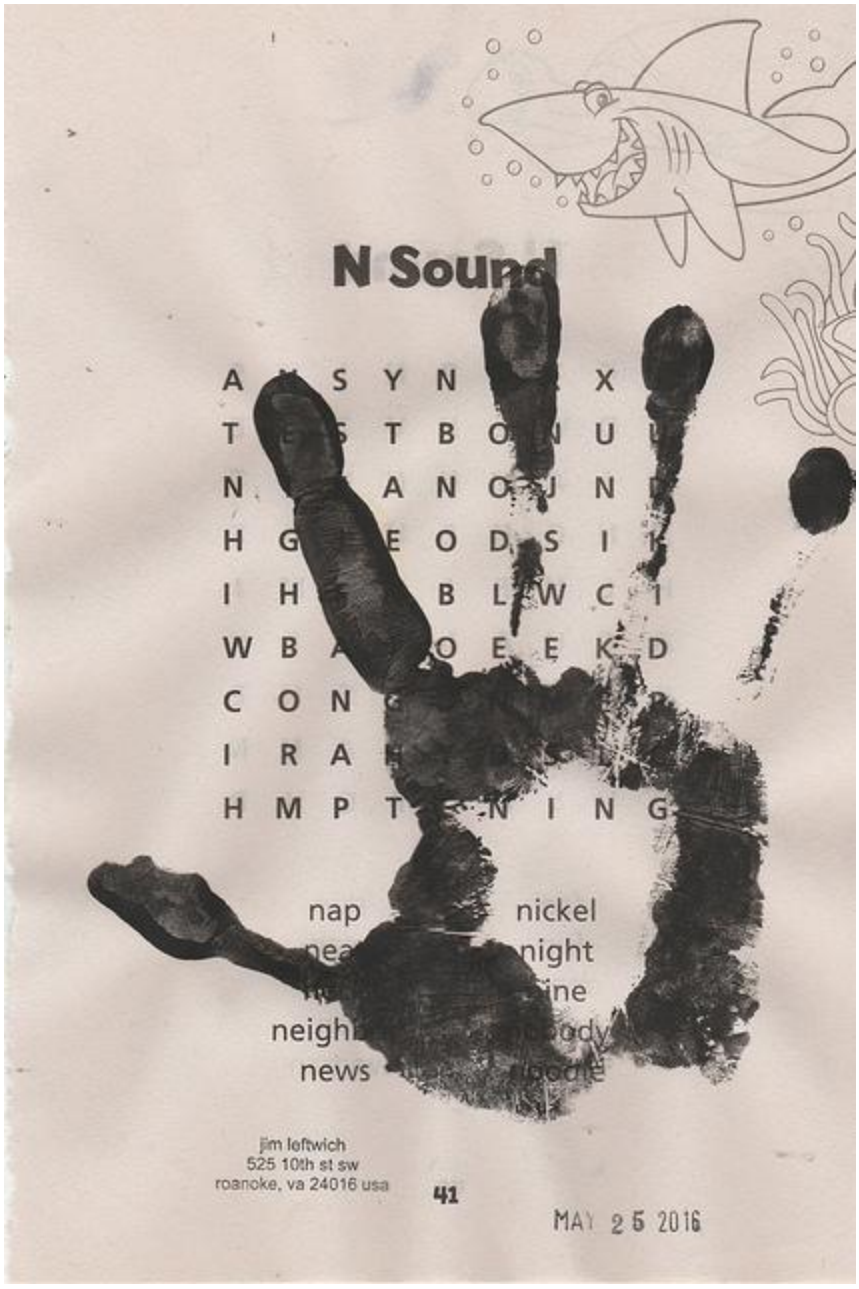
G is called the constant of universal gravitation. [illegible] force is expressed in newtons, the masses [illegible] the distance in metres, [illegible] metre² per kilogram [illegible] are newton-metres, [illegible] tential as mgh, as [illegible] valid only when there [illegible] separation [illegible] the Earth [illegible] mass [illegible] changes [illegible] near its surface, [illegible] be almost [illegible] the Earth's surface [illegible] is about 6,000 [illegible] centre) to 16 kilo[illegible] above the Earth's surface, the acceleration decreases from about [illegible] per sec².

The constant of universal gravitation

Energy of an elastic spring. Energy may be stored in a elastic spring by either extending or compressing the spring. The force F acting to [illegible] the spring to its equilibrium position in an elastic [illegible] tional to the displacement from that [illegible] and is in direction to the [illegible] dis[illegible] that x is measured [illegible] spring force F [illegible] and the elastic [illegible]

[illegible] of the direction [illegible] placement [illegible] all store energy. [illegible] in its various [illegible] facilitated by [illegible] energy diagram. If [illegible] a force-free space, [illegible] position [illegible] the spring is [illegible] giving it [illegible] potential [illegible] energy is zero. As the system moves toward the equilibrium position, the stored energy decreases while the [illegible] to restore the system to equilibrium imparts [illegible] a kinetic energy unit, at the equilibrium dis[illegible] the potential energy is zero, but the kinetic energy [illegible] reached a value that is equal in magnitude to the [illegible] energy at the point of maximum displacement. [illegible] mass moves past the equilibrium position, the spring exerts a retarding force on it, which tends to slow the mass down and thus decrease its kinetic energy. Concurrently, the displacement of the spring from equilibrium again results in energy being stored in the spring. Thus, in an ideal system the total energy [illegible] potential energy remains unchanged but is [illegible] continually from one to the other. This transfer of energy from one form to another is shown graphically in Figure 3. The total energy in the oscillating system remains constant, but at specific times is completely in the form of kinetic energy, while at other times it is completely in the form

Transfer of energy in a spring



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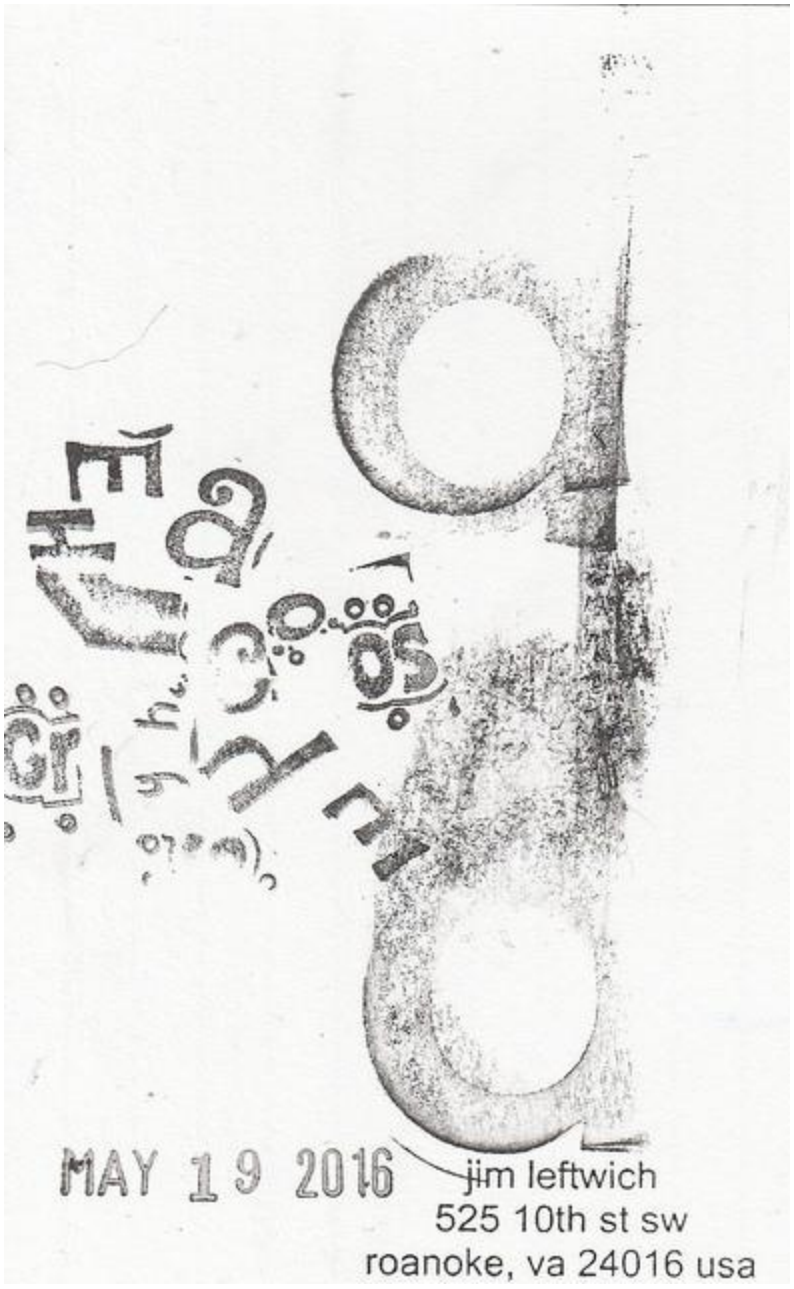

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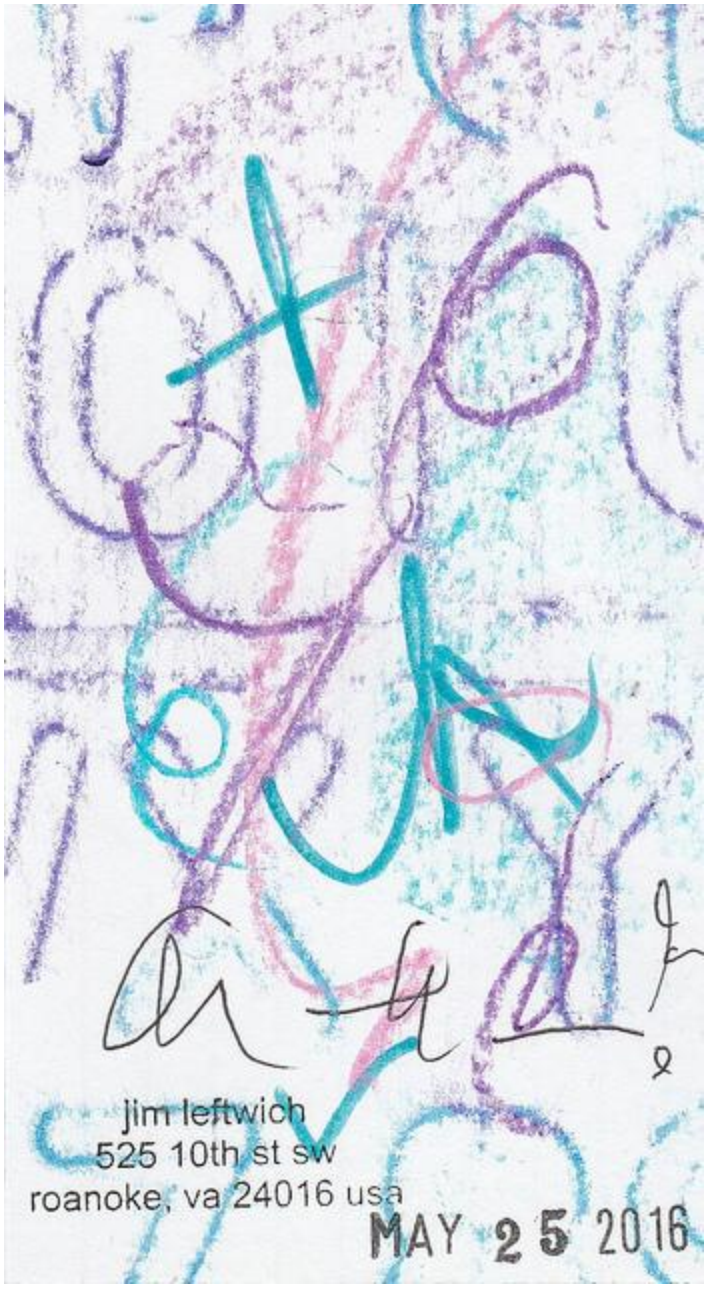
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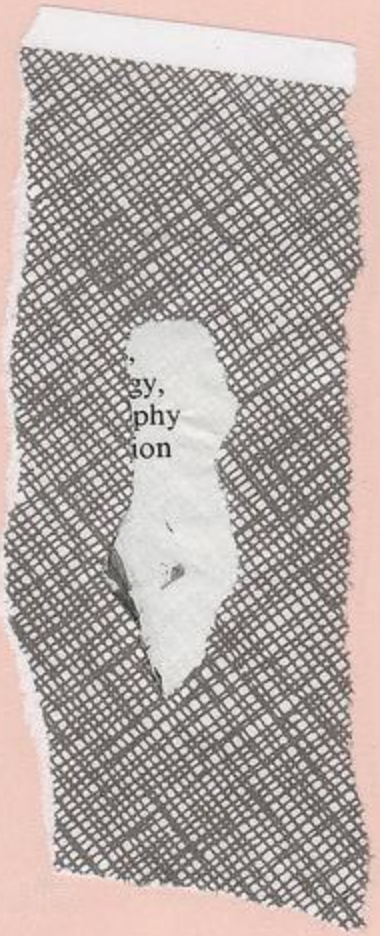

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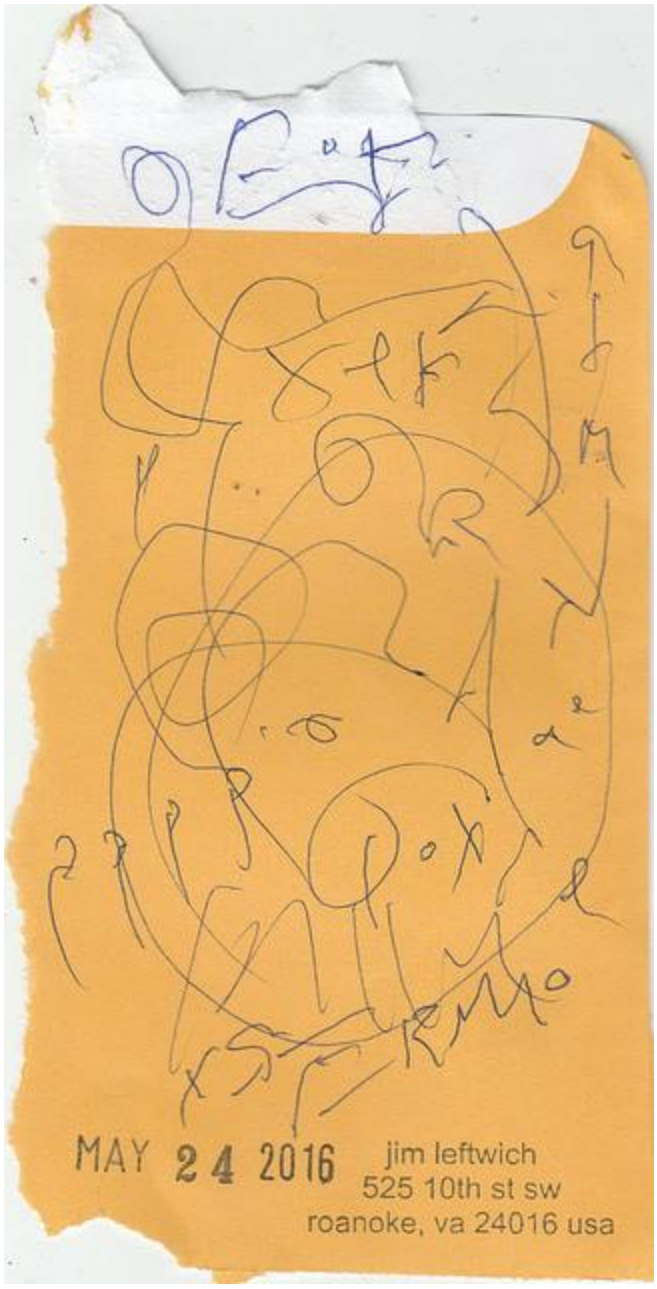

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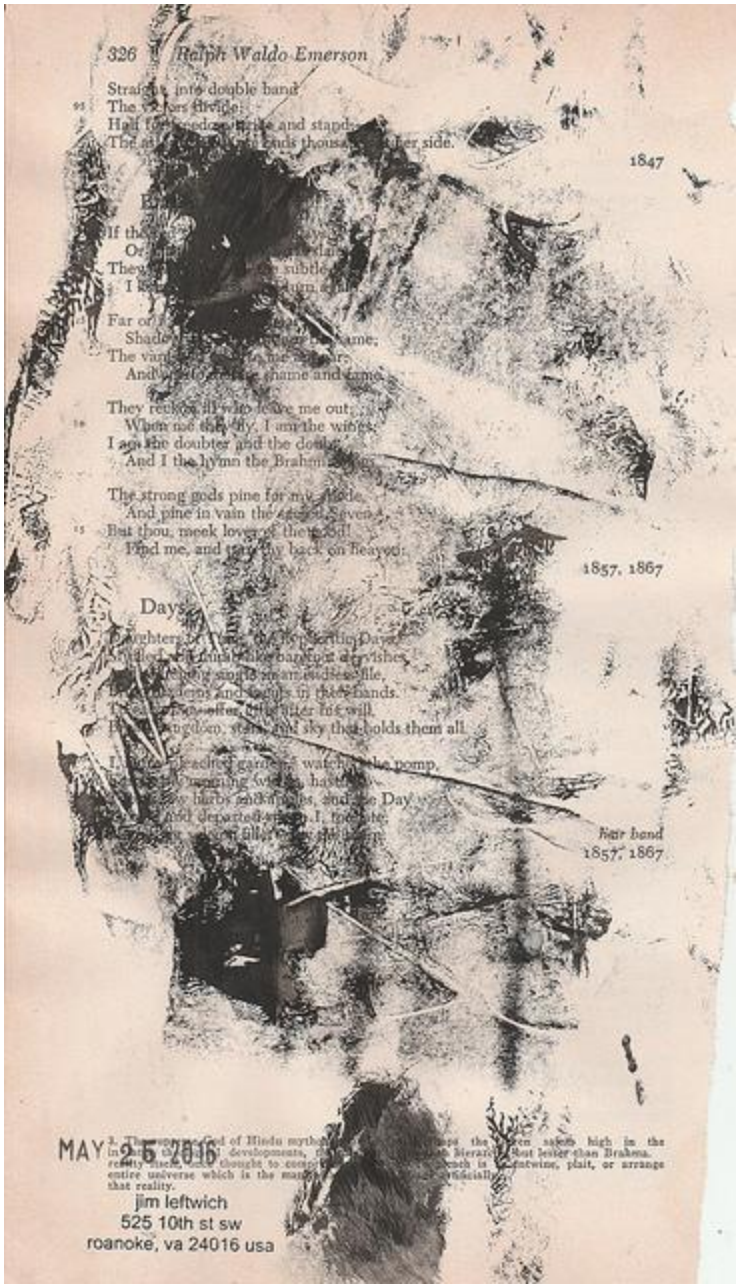
SCHEMATIC DIAGRAM

The schematic diagram is the most important diagram used by electronics personnel. To interpret a schematic diagram, a knowledge of the symbols that represent the parts is an absolute necessity. Diagrams used to show the interconnection of component parts in this text are illustrated in schematic form in most cases.

Quite often the novice believes he is reading a schematic diagram, when in reality he is making use of a wiring diagram. A comparison of a schematic diagram and a wiring diagram is illustrated in Chap. 1. Figure 1 · 11*a* shows a *wiring diagram* of a simple circuit, and Fig. 1 · 11*b* is the *schematic* counterpart of the same circuit. Figure 20 · 17 is the



Straight into double band
The [illegible] bridge;
Half [illegible] and stands
The [illegible] gods thousand [illegible] her side.

1847

[illegible]
If th[illegible]
Or [illegible]
They [illegible]
I [illegible]

Far or[illegible]
Shade [illegible] name;
The van[illegible]
And [illegible] shame and tame.

They reckon ill who leave me out;
When me they fly, I am the wings;
I am the doubter and the doubt,
And I the hymn the Brahmin sings.

The strong gods pine for my abode,
And pine in vain the sacred Seven;
But thou, meek lover of the good!
Find me, and turn thy back on heaven.

1857, 1867

Days

Daughters of Time, the hypocritic Days,
Muffled and masked, and marching in single file,
Each bearing an urn with a gift for me,
Silent and solemn. Stately, proud, they pass,
Nor greet me, nor look back, nor understand
Whom in their mystic ranks they bring for me.

What provident Genius hovers over all
And shuts the doors on all but one hand?
One gift at once is all I can receive.
Slowly they pace, each with the same intent,
Which yet seems never the same intent,
Till after all have passed, I see,
Each gift was the same gift, opportunity.

Near hand
1857, 1867

3. The supreme God of Hindu mythology, who, perhaps the [illegible]en stands high in the intellectual [illegible] developments, [illegible] literature [illegible] lesser than Brahma. reality inside, [illegible] thought to comprehend [illegible] earth is to entwine, plait, or arrange entire universe which is the manifestation [illegible] Specially that reality.

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molten solder may be introduced into t
solder pot as shown in Fig. 8 · 14. Anoth
way to place the solder in the solder pot is
cut a piece of solder of a length less than t
pot height and, while it is in a cold state, dr
it into the pot. The solder pot may then
heated, and the solder will melt inside. In
event should the amount of molten solc
completely fill the pot without the wire bei
inserted.

A wire that has previously been cut to si
and tinned may now be inserted into t
solder pot by reheating and melting the solc
in the pot. A properly soldered connect
solder pot, with a wire inserted, is illustrat
in Fig. 8 · 15. For proper wire length refer
Fig. 9 · 11.

E

Job 8 · 1 How to tin the tip of a soldering i

OBJECTIVES

1. To learn how to prepare a soldering i
prior to soldering
2. To become acquainted with materials u
in soldering

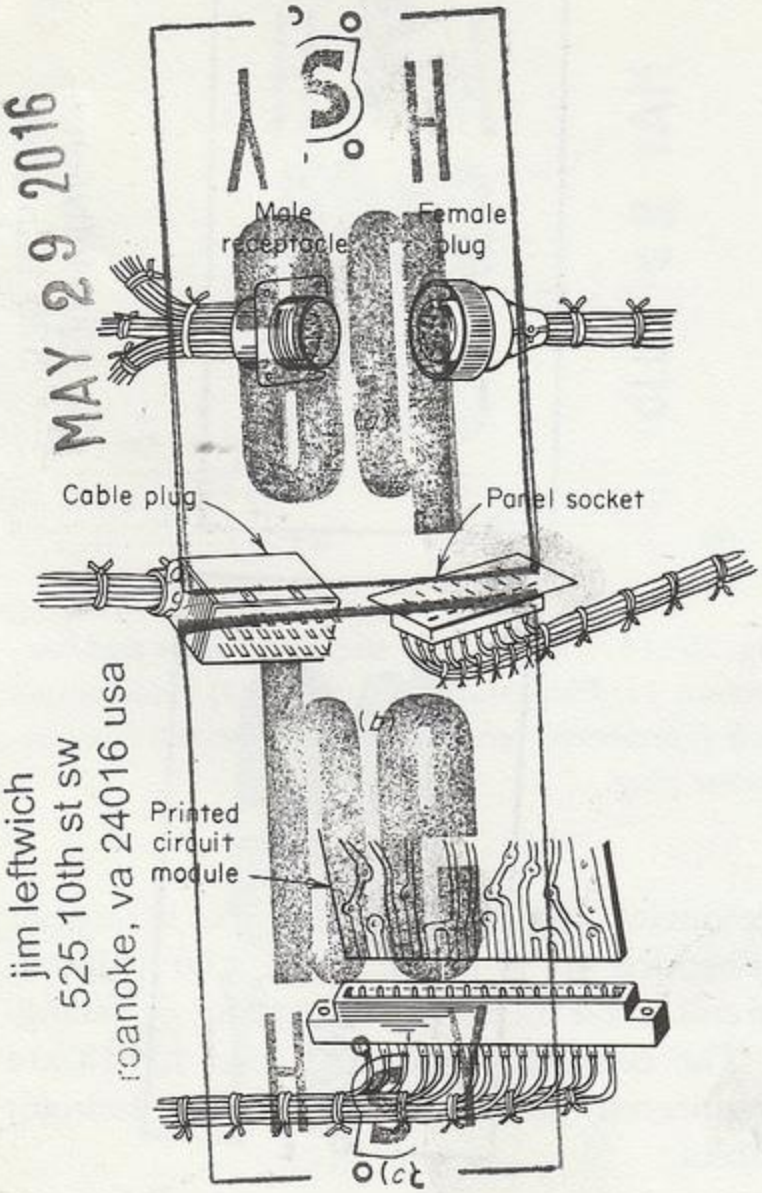

Fig. 15.10 Typical cable connectors. (a) Pin


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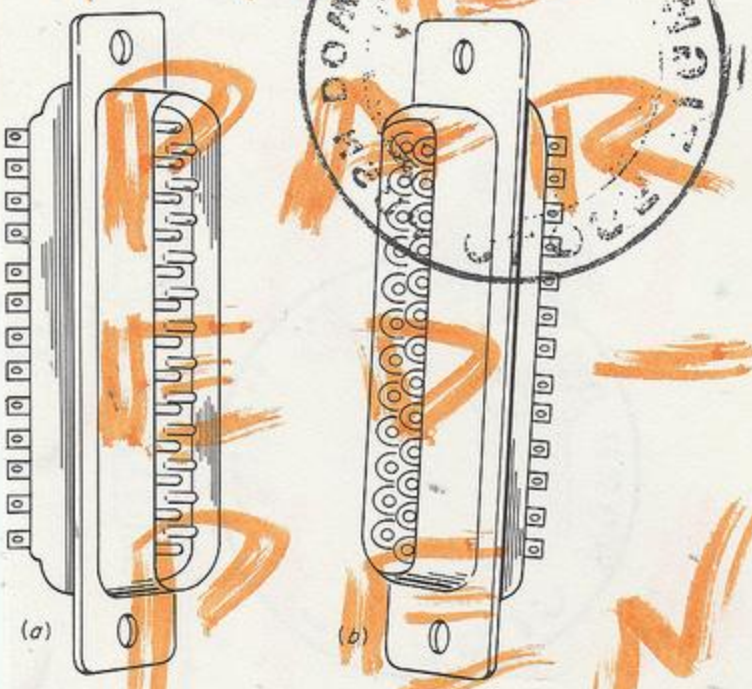
hat it is thin and flexible allows this type of able to find many applications. The cable n Fig. 15 · 13*a* is a nine-conductor cable. The



g. 15 · 11 Rack-and-panel connectors. (*a*) Male. Female.

Calligraphy

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ranean peninsulas also had evergreen and mixed forests rooted in an ample soil.

The role of man. From prehistoric times forward, with ever increasing force, man, seeking optimum economic use of available resources, has acted as a vigorous agent of vegetation change. The effects of grazing animals may well explain why some heathlands (e.g., the Lüneburger Heide in north Germany) replaced primeval forest. By fire and later by axe, forest clearance met demands for homes and ships, for fuel, for charcoal for iron smelting, and not least, for more cultivation and pasture. The mixed boreal forests suffered most because their relatively rich soils and long and warm growing season promised good returns from cultivation. The destruction of woodland was markedly strong when population was growing rapidly between *c.* AD 800 and 1300. It was later intensified by German colonization east of the Rhine and reached maximum scale in the 19th century. In southern Europe, where naval demands were continuous and sources of suitable timber sharply localized—tree cutting extending from classical antiquity onward, serious soil loss through erosion, increased aridity, floods, and marsh formation. Further north throughout the continent, as present distribution of arable land shows, former forests were reduced to remnants; only in the north and below the snow line of Alpine mountains have forests of large and commercially valuable trees survived. These coniferous forests of Sweden, Finland, and northern U.S.S.R. are "cropped" annually to preserve their capital value. On the positive side may be noted the reclamation of marshlands and the soil improvement of old grasslands and heaths; their wild vegetation being replaced by pasture and crops. In timber-deficient countries the afforestation of hillslopes, chiefly with quickly growing conifers, belatedly attempts to restore some of the former forests. Another drastic vegetation change brought about by man has been the virtual elimination of the wooded and grass steppes, which have become wheat-growing granaries.

Exterior influences and European survivals. To a surprising degree, Europe's vegetation stemmed from the importation of plants from other continents, although some imported crops—notably citrus fruits, sugarcane, and rice—can only grow marginally in Europe, and then by irrigation. From the original home of wild grasses in Ethiopia, cultivated varieties of wheat and barley reached Europe early, via Southwest Asia and Egypt, as did also the olive, vine, fig, flax, and some varieties of vegetables. Rice, sugarcane, and cotton, of tropical Indian origin, were introduced by the Arabs and Moors, especially into Spain. The citrus fruits, peach, mulberry, oats, and millet reached Europe from original Chinese habitats, and Europe gave maize, tobacco, squashes, tomatoes, red pepper, prickly pear, agave (sisal), and the potato—first grown for fodder but destined to become the cheap staple food for the large families of low-paid workers of the 19th century—to the Americas. Europe has drawn greatly on eastern Asia and North America for trees, especially ornamental kinds, while some acacias and the eucalyptus derive from Australia. Sugar beet, however, was Europe's discovery, first grown when much of Napoleonic Europe was subjected to maritime blockade.

The forests of northern Europe and the Alpine ranges, although in no sense primeval, represent unchanged land use during the postglacial period. The "closed boreal forest" occupies 1,000,000 square miles, made up of a spruce-fir association (but with stands of pine, birch, and larch) above an undergrowth of mosses and herbs. The large and valuable reserve of timber is of world importance; forests once covered 80 percent of Europe's surface, and they still occupy about 30 percent.

Human adaptations. Clearly, animal life, wild and domesticated, has been adjusted to fit largely man-made patterns of vegetation, which, in turn, reflect age-long attempts to achieve chiefly economic ends. With such endeavours are associated varieties of *modes de vie*, or "modes of livelihood." In the mountainous and boreal forests, the environment is exploited by winter lumbering and by the transport of felled trees by river after the spring thaw. So, too, agriculture in its many forms—in part for

The Meseta, an arid region in the interior of Spain.

Spain—Photo Researchers

subsistence but commonly for urban markets—is a basic occupation of the lowlands, long cleared of extensive forests or steppe vegetation. In Mediterranean Europe, rural life is based on horticulture and arboriculture rather than on large-scale cultivation, as well as on the rearing of sheep and goats and wheat cultivation, continues. Cattle characterize many areas. For such deeply rooted fruit-bearing trees as the olive and vine, use is made of slopes, broken, and terraced land. Farming also extends to specialized forms with respect to the subtropical crops and climate, sometimes supplemented by irrigation, as in

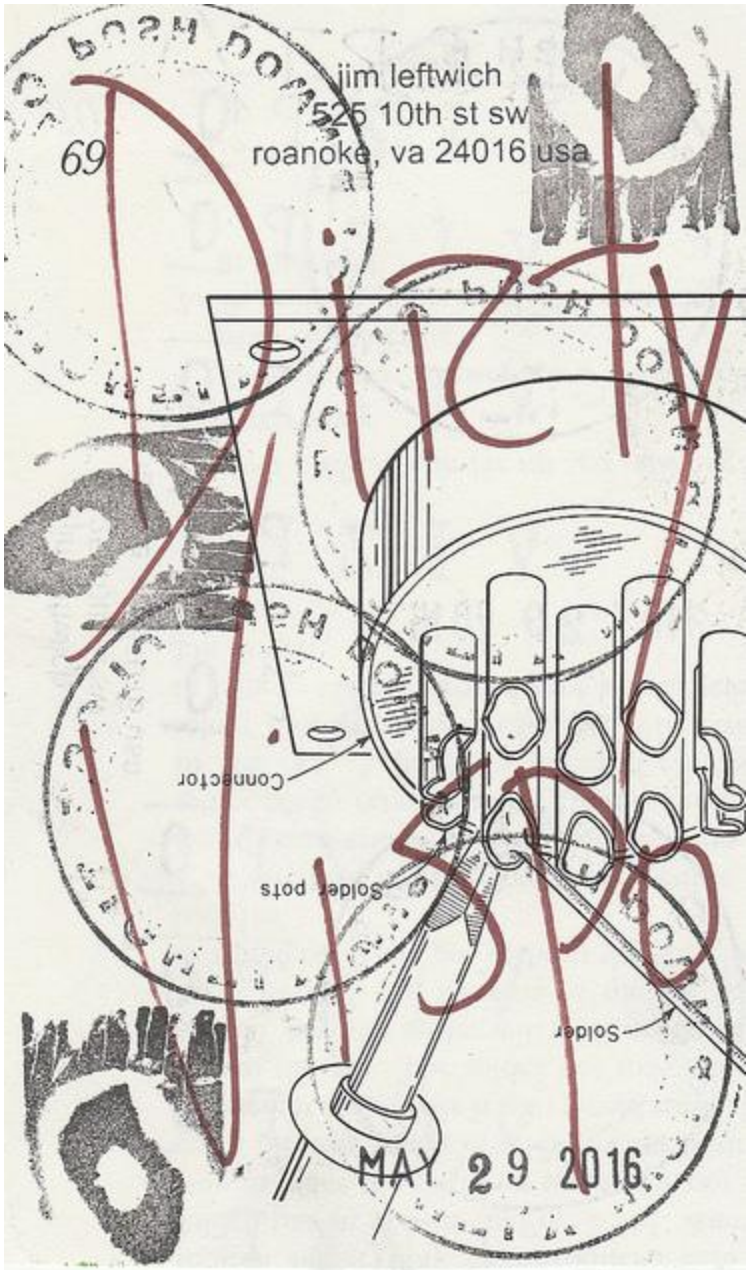
ANIMAL LIFE

Patterns of distribution. With animals as with plants, the earlier Pleistocene range and variety have been much reduced since man disposed of wild nature in general. Wild fauna has been long in retreat since Upper Paleolithic times, when, as cave drawings portray, the human groups lacked such sport animals as the now extinct aurochs and tarpan, the now extinct, and also all but such survivors as the important fauna, horse, and cow. Hares, swans, and game birds also limited, and salmon, trout, and pike were valued chiefly as were, inevitably, a successful competitor for land use. By prolonged effort, settlers won the land for crops and for domesticated animals, and they hunted animals, especially fur bearers. As population increased in industrializing Europe, humans nonetheless ruthlessly destroyed, or changed drastically, the wild vegetation cover and the animal life. With difficulty, and largely on human sufferance, animal forms nevertheless survived in association with contemporary vegetation zones.

The tundra. In the far north (home of reindeer/caribou), both wild and domesticated animals well equipped to withstand the cold. Their sprawling, spoon-shaped hoofs are useful in finding food in much ground. Their habit of migrate southward in winter and northward in summer, as well as flesh, notably that of ptarmigan and Arctic hare, skins, too, are sought for traction (as well less thanprecious, which also provide meat, milk, pelts, wool, and leather. The Arctic fox, bear, ermine, partridge, and the snowy owl may appear in the tundra, where, in the short summer, seabirds, river fish, and immigrant birds (swans, ducks, and snipes) vitalize a harsh environment that would be almost intolerable by the storms of midwinter.

Boreal associations. In the boreal forests the animal and bird life, which has persisted throughout historical times, is now greatly reduced. Among large surviving ungulates are the elk (moose), reindeer, and roebuck, and, among large beasts of prey, the large brown bear. The lynx has been exterminated, but not the wolf, fox, marten, badger, polecat, and white weasel. The sable, much hunted for its fur, only just survives in the northeastern forests of

The thinning out of animal species in boreal forests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Connector
Solder pots
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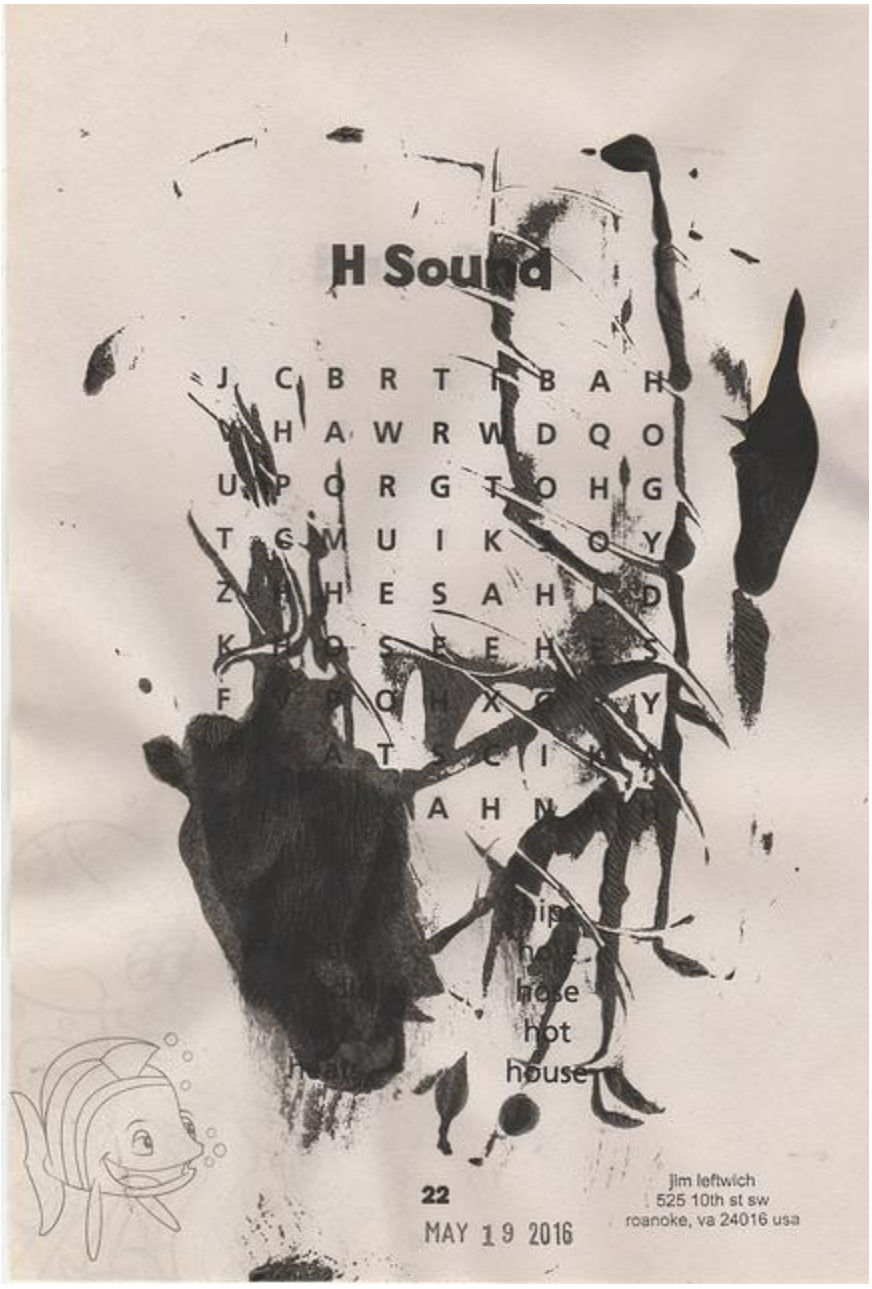
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